

**vidikron®**

**VISION**  
MODEL **60**

**D-ILA™ PROJECTOR**

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# INTRODUCTION

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## » Introduction to the Vidikron Vision Model 60 D-ILA™ Projector

Vidikron raises the bar again in high quality, home theater video performance with the Vision™ Model 60. Vidikron engineers have designed this product with the implementation of advanced, D-ILA™ (Direct Drive Image Light Amplifier) technology. This exciting projector is capable of producing some of the most natural, smooth images yet available in today's video world. Tremendous detail, richly saturated colors and outstanding black level reproduction are hallmarks of the Model 60.

The Model 60's optical light engine design and Vidikron's incorporation of three D-ILA chips result in exceptionally low noise without the flicker and "rainbow effect" that often plague one-chip digital video display devices. Vidikron engineers have also paid careful attention to accurate gray scale tracking and true 6500K color reproduction capability. Together, all of these engineering achievements produce the most pleasing and film-like high-resolution pictures imaginable.

With 1000 ANSI lumens of light output (CSMS™ Light Output of 17.9 ft-Lamberts) and an 800:1 contrast ratio, the Model 60 offers state-of-the-art picture quality on screens as large as eight feet wide. Vidikron's outstanding Imagix™ video processing with 3:2 film detection circuitry and the Model 60's full HDTV compatibility (with outboard tuner/decoder or satellite receiver) make it versatile enough to handle every video source.

In addition, Vidikron's multiple aspect ratio control enables viewing standard video formats in their native modes without loss of image quality. Discrete IR and RS-232 control make custom installation seamless, while discrete source and aspect ratio selection accommodate any automation control system.

Finally, the Vision Model 60 is packaged in stunning, Italian inspired styling to blend seamlessly with any decor.

## » The features you'll enjoy include:

- D-ILA™ Technology for pristine video images
- 3-chip D-ILA configuration with native 16:9 aspect ratio
- 1400 x 788 native resolution
- Integrated Imagix™ Video Processing with 3:2 pulldown
- 1000 ANSI Lumens/CSMS™ Light Output of 17.9 ft-Lamberts
- 800:1 Contrast ratio
- Multiple aspect ratios
- HDTV ready
- DVI input with HDCP
- Discrete IR and RS-232 Control

## » Contents of the package:

- 3-Chip Projection System
- (1) AC Power cord
- (1) AV connection cable
- (1) Remote control with (2) AA batteries
- (1) Screen trigger terminal cable
- (1) User's manual
- (1) Warranty information and registration card

## » Options:

- Ceiling mount unit

## IMPORTANT INFORMATION

### NOTICE (For USA)

#### Language for Manuals of Products using HID Lamps (that contains mercury)

This product has a High Intensity Discharge (HID) lamp that contains a small amount of mercury. It also contains lead in some components.

Disposal of these materials may be regulated in your community due to environmental considerations. For disposal or recycling information please contact your local authorities, or the Electronics Industries Alliance: <http://www.eiae.org>.

#### WARNING:

TO PREVENT FIRE OR SHOCK HAZARDS, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

#### WARNING:

THIS APPARATUS MUST BE EARTHED.

#### CAUTION:

To reduce the risk of electric shock, do not remove cover. Refer servicing to qualified service personnel.

This projector is equipped with a 3-blade grounding type plug to satisfy FCC rule. If you are unable to insert the plug into the outlet, contact your electrician.

### FCC INFORMATION (U.S.A. only)

#### CAUTION:

Changes or modification not approved by Vidikron could void the user's authority to operate the equipment.

#### NOTE:

This equipment has been tested and found to comply with the limits for Class B digital devices, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encourage to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

### MACHINE NOISE INFORMATION (Germany only)

Changes Machine Noise Information Ordinance 3.

GSGV, January 18, 1991: The sound pressure level at the operator position is equal or less than 70 dB (A) according to ISO 7779.

### About burning-in of the D-ILA device

Do not allow the same still picture to be projected for a long time or an abnormally bright video picture to be projected.

Do not project video images with high-intensity or high contrast on a screen. The video image could be burnt into the D-ILA device.

Use special care when projecting video games or computer program images. There is no problem with ordinary video-cassette playback images.

### About the installation place

Do not install the projector in a place that cannot support its weight securely.

If the installation place is not sturdy enough, the projector could fall or overturn, possibly causing personal injury.

## IMPORTANT SAFEGUARDS

Electrical energy can perform many useful functions. This unit has been engineered and manufactured to assure your personal safety. But **IMPROPER USE CAN RESULT IN POTENTIAL ELECTRICAL SHOCK OR FIRE HAZARD**. In order not to defeat the safeguards incorporated into this product, observe the following basic rules for its installation, use and service. Please read these Important Safeguards carefully before use.

- All the safety and operating instructions should be read before the product is operated.
- The safety and operating instructions should be retained for future reference.
- All warnings on the product and in the operating instructions should be adhered to.
- All operating instructions should be followed.
- Place the projector near a wall outlet where the plug can be easily unplugged.
- Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
- Do not use attachments not recommended by the product manufacturer as they may be hazardous.
- Do not use this product near water. Do not use immediately after moving from a low temperature to high temperature, as this causes condensation, which may result in fire, electric shock, or other hazards.
- Do not place this product on an unstable cart, stand, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. The product should be mounted according to the manufacturer's instructions, and should use a mount recommended by the manufacturer.
- When the product is used on a cart, care should be taken to avoid quick stops, excessive force, and uneven surfaces which may cause the product and cart to overturn, damaging equipment or causing possible injury to the operator.

- Slots and openings in the cabinet are provided for ventilation. These ensure reliable operation of the product and protect it from overheating. These openings must not be blocked or covered. (The openings should never be blocked by placing the product on bed, sofa, rug, or similar surface. It should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided and the manufacturer's instructions have been adhered to.)

For proper ventilation, separate the product from other equipment, which may prevent ventilation and keep a distance of more than 11-7/8" (30 cm).

- This product should be operated only with the type of power source indicated on the label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company.

- This product is equipped with a three-wire plug. This plug will fit only into a grounded power outlet. If you are unable to insert the plug into the outlet, contact your electrician to install the proper outlet. Do not defeat the safety purpose of the grounded plug.

- Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them. Pay particular attention to cords at doors, plugs, receptacles, and the point where they exit from the product.

- For added protection of this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the cable system. This will prevent damage to the product due to lightning and power line surges.

- Do not overload wall outlets, extension cords, or convenience receptacles on other equipment as this can result in a risk of fire or electric shock.

- Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.

- Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltages and other hazards. Refer all service to qualified service personnel.

- Unplug this product from the wall outlet and refer service to qualified service personnel under the following conditions:

- a) When the power supply cord or plug is damaged.
- b) If liquid has been spilled, or objects have fallen on the product.
- c) If the product has been exposed to rain or water.
- d) If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the Operation Manual, as an improper adjustment of controls may result in damage and will often require extensive work by a qualified technician to restore the product to normal operation.
- e) If the product has been dropped or damaged in any way.
- f) When the product exhibits a distinct change in performance - this indicates a need for service.

- When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or with same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or

other hazards.

- Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

- The product should be placed more than one foot away from heat sources such as radiators, heat registers, stoves, and other products (including amplifiers) that produce heat.

- When connecting other products such as VCR's, and personal computers, you should turn off the power of this product for protection against electric shock.

- Do not place combustibles behind the cooling fan. For example, cloth, paper, matches, aerosol cans or gas lighters that present special hazards when over heated.

- Do not look into the projection lens while the illumination lamp is turned on. Exposure of your eyes to the strong light can result in impaired eyesight.

- Do not look into the inside of this unit through vents (ventilation holes), etc. Do not look at the illumination lamp directly by opening the cabinet while the illumination lamp is turned on. The illumination lamp also contains ultraviolet rays and the light is so powerful that your eyesight can be impaired.

- Do not drop, hit, or damage the light-source lamp (lamp unit) in any way. It may cause the light-source lamp to break and lead to injuries. Do not use a damaged light-source lamp. If the light-source lamp is broken, ask your dealer to repair it. Fragments from a broken light-source lamp may cause injuries.

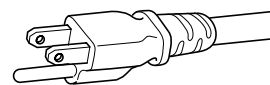
- The light-source lamp used in this projector is a high pressure mercury lamp. Be careful when disposing of the light-source lamp. If anything is unclear, please consult your dealer.

- Do not ceiling-mount the projector to a place which tends to vibrate; otherwise, the attaching fixture of the projector could be broken by the vibration, possibly causing it to fall or overturn, which could lead to personal injury.

- Use only the accessory cord designed for this product to prevent shock. The power supply voltage rating of this product is AC 120 V, AC 100 V - AC 240 V, the power cord attached conforms to the following power supply voltage. Use only the power cord designated by our dealer to ensure Safety and EMC. When it is used by other power supply voltage, power cable must be changed. Ensure that the power cable used for the projector is the correct type for the AC outlet in your country.

Consult your product dealer.

Power cord



Power supply voltage: AC 120 V

**\*DO NOT allow any unqualified person to install the unit.**

Be sure to ask your dealer to install the unit (e.g. attaching it to the ceiling) since special technical knowledge and skills are required for installation.

If installation is performed by an unqualified person, it may cause personal injury or electrical shock.

## POWER CONNECTION

**WARNING:**

Do not cut off the main plug from this equipment. If the plug fitted is not suitable for the power points in your home or the cable is too short to reach a power point, then obtain an appropriate safety approved extension lead or adapter or consult your dealer.

If nonetheless the mains plug is cut off, remove the fuse and dispose of the plug immediately, to avoid a possible shock hazard by inadvertent connection to the main supply. If a new main plug has to be fitted, then follow the instruction given below:

**WARNING:**

**THIS APPARATUS MUST BE EARTHED. IMPORTANT:**

The wires in the main lead on this product are colored in accordance with the following cord:

Green-and-yellow : Earth

Blue : Neutral

Brown : Live

As these colors may not correspond with the colored making identifying the terminals in your plug, proceed as follows:

The wire which is colored green-and-yellow must be connected to the terminal which is marked with the letter E or the safety earth or colored green or green-and-yellow. The wire which is colored blue must be connected to the terminal which is marked with the letter N or colored black. The wire which is colored brown must be connected to the terminal which is marked with the letter L or colored red. When replacing the fuse, be sure to use only a correctly rated approved type, re-fit the fuse cover.

**IF IN DOUBT..... CONSULT A COMPETENT  
ELECTRICIAN.**

# CAUTION

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## About burning-in of the D-ILA device

- **Do not allow the same still picture to be projected for a long time or an abnormally bright video image to be projected.**

Do not project video images with high-intensity or high contrast on a screen. The video image could be burnt into the D-ILA device.

Use special care when projecting video games or computer program images.

There is no problem with ordinary video cassette playback images.

## Viewing conditions

- **Brightness of the room**

Please avoid having sunshine or light shine directly onto the screen. Images can only be well projected if the room is dark.

- **Do not view the screen continually for a long time**

Looking at the screen continually for a long time will cause your eyes to be tired. **Please rest your eyes sometimes.**

- **Image flicker due to installation condition or the environment**

Please do not view flickering images for too long as this causes poor eyesight.

## Using the projector

- **Remove the Lens Cap when using the projector**

Please use the projector after removing the lens cap.

The cap may become deformed and this unit may break down due to heat.

## How to use the [SCREEN TRIGGER] terminal cable

- **It may cause short circuit if the supplied [SCREEN TRIGGER] terminal cable is used directly. When using the cable, connect it to the screen before connecting to this unit.**

The [SCREEN TRIGGER] terminal of this unit outputs a DC +12 V / max. 100 mA signal. Short circuit will result in damage, fire or electrical shock.

- **Leave the connection of the screen to the installation contractor.**

It will result in damage, fire or electrical shock.

## Care

- **Dirt in the cabinet**

Please wipe the cabinet clean with a soft cloth. In case of heavy soiling, please wipe it with a damp cloth soaked with a neutral detergent.

- **Since the cabinet may in time, get damaged or deteriorate in condition, (e.g. peeling paint):**

- Do not wipe with a stiff cloth.
- Do not wipe with force.
- Do not wipe with thinner or benzene.
- Do not spray chemicals like insecticide.
- Do not allow it to come into contact with rubber or vinyl materials for an extended period of time.

- **Cleaning the lens**

- Please use lens-cleaning paper (of the kind for cleaning spectacles, cameras etc) sold in the market for cleaning.
- Please do not use liquid-type cleansers as it may cause the coating mask on the surface to peel off.
- Please do not knock the surface of the lens as it damages easily.

## **Using the screen mode switch function**

- This projector is equipped with a screen mode switch function that sets the screen size (aspect ratio and resize). If the set screen aspect ratio and size differs from that of the inputted images (e.g. images from TV programs), the projected image screen will differ from the original. Please bear this in mind when you choose the screen mode.
- Please keep in mind that making use of the screen mode switch function to alter screen images (aspect ratio and resize) in restaurants/ hotels etc, for public viewing, in the pursuit of profit may constitute an infringement of the Copyright Act.

# TWO YEAR LIMITED WARRANTY

## For Projectors, Video Processors and Controllers

Congratulations on your purchase of a Vidikron video product and welcome to the Vidikron family! With proper installation, setup and care, you should enjoy many years of unparalleled video performance.

This is a LIMITED WARRANTY as defined in the Magnuson-Moss Warranty Act. Please read it carefully and retain it with your other important documents.

### **WHAT IS COVERED UNDER THE TERMS OF THIS LIMITED WARRANTY:**

**SERVICE LABOR:** Vidikron will pay for service labor by a Vidikron Authorized Service Center when needed as a result of manufacturing defect for a period of two (2) years from the effective date of delivery to the end user (excluding the lamp).

**PARTS:** (Not including the lamp) Vidikron will provide new or rebuilt replacement parts for the parts that fail due to defects in materials or workmanship for a period of two (2) years from the effective date of delivery to the end user. Such replacement parts are then subsequently warranted for the remaining portion (if any) of the original warranty period.

**PROJECTOR LAMP:** Vidikron will pay for service labor by a Vidikron Authorized Service Center when needed as a result of a manufacturing defect for a period of six (6) months or 1000 hours, which ever comes first, from the effective date of delivery to the end user. In addition, Vidikron will provide a new or rebuilt replacement lamp for the lamp that fails due to defects in materials or workmanship for a period of six (6) months or 1000 hours, which ever comes first, from the effective date of delivery to the end user. Such replacement lamps are then subsequently warranted for the remaining portion (if any) of the original warranty period.

### **WHAT IS NOT COVERED UNDER THE TERMS OF THIS LIMITED WARRANTY:**

This Limited Warranty only covers failure due to defects in materials and workmanship that occur during normal use and does not cover normal maintenance. This Limited Warranty does not cover cabinets or any appearance items; failure resulting from accident, misuse, abuse, neglect, mishandling, misapplication, faulty or improper installation or setup adjustments; improper maintenance, alteration, improper use of any input signal; damage due to lightning or power line surges, spikes and brownouts; damage that occurs during shipping or transit; or damage that is attributed to acts of God. In the case of remote control units, damage resulting from leaking, old, damaged or improper batteries is also excluded from coverage under this Limited Warranty.

**CAUTION:** THIS LIMITED WARRANTY ONLY COVERS VIDIKRON PRODUCTS PURCHASED FROM VIDIKRON AUTHORIZED DEALERS. ALL OTHER PRODUCTS ARE SPECIFICALLY EXCLUDED FROM COVERAGE UNDER THIS LIMITED WARRANTY. MOREOVER, DAMAGE RESULTING DIRECTLY OR INDIRECTLY FROM IMPROPER INSTALLATION OR SETUP IS SPECIFICALLY EXCLUDED FROM COVERAGE UNDER THIS LIMITED WARRANTY.

### **RIGHTS, LIMITS AND EXCLUSIONS:**

Vidikron limits its obligations under any implied warranties under state laws to a period not to exceed the warranty period. There are no express warranties. Vidikron also excludes any obligation on its part for incidental or consequential damages related to the failure of this product to function properly. Some states do not allow limitations on how long an implied warranty lasts, and some states do not allow the exclusion or limitation of incidental or consequential damages. So the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights, and you may also have other rights that vary from state to state.

**EFFECTIVE WARRANTY DATE:**

This Limited Warranty begins on the effective date of delivery to the end user. For your convenience, keep the original bill of sale as evidence of the purchase date.

**IMPORTANT: WARRANTY REGISTRATION:**

Please fill out and mail your warranty registration card. It is imperative that Vidikron knows how to reach you promptly if we should discover a safety problem or product update for which you must be notified.

**CONTACT A VIDIKRON AUTHORIZED SERVICE CENTER TO OBTAIN SERVICE:**

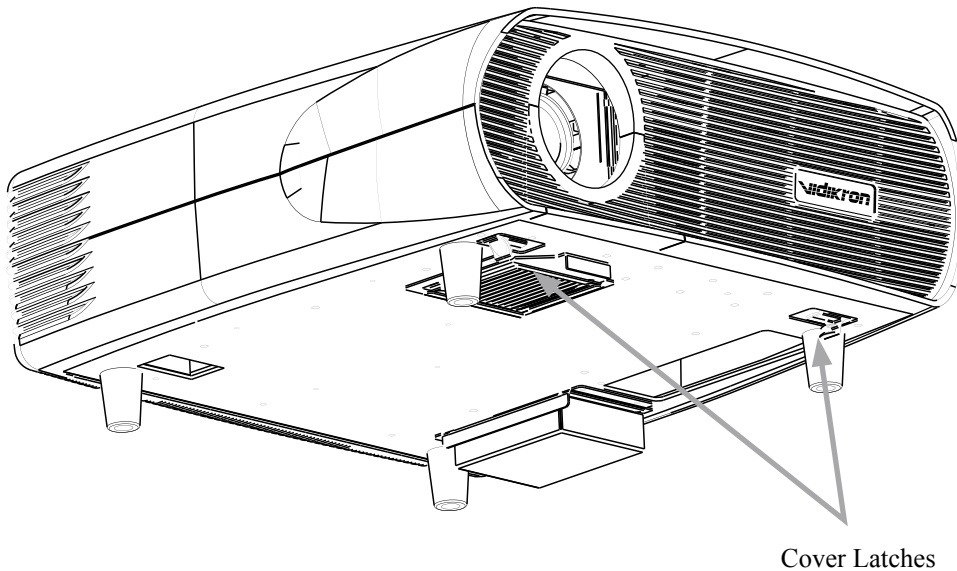
Repairs made under the terms of this Limited Warranty covering your Vidikron video product will be performed at the location of the product, during usual working hours, providing location of product is within normal operating distance from a Vidikron Authorized Service Center. In some instances it may be necessary for the product to be returned to the Vidikron factory for repairs. If, solely in Vidikron's judgment, location of product to be repaired is beyond normal operating distance of the closest Vidikron Authorized Service Center, or the repair requires the unit be returned to the Vidikron factory, it is the owner's responsibility to arrange for shipment of the product for repair. These arrangements must be made through the selling Vidikron dealer. If this is not possible, contact Vidikron directly to locate an authorized Vidikron representative who will assist you in getting a return authorization. Vidikron will return product transportation prepaid in the United States, unless no product defect is discovered. In that instance, shipping costs will be the responsibility of the owner.

**ADDITIONAL INFORMATION:**

To locate the name and address of the nearest VIDIKRON authorized service location, or for additional information about this Limited Warranty, please call or write:

**VIDIKRON**  
**Attn: Customer Service Department**  
**2900 Faber Street**  
**Union City, CA 94587**  
**Ph: (510) 324-5900**  
**Fax: (510) 324-5905**  
**Toll Free: (888) 4-VIDIKRON**

### » Projector Chassis Cover



#### **To Open the Projector Cover:**

- (1) Locate the two black cover latches under the front edge.
- (2) Push the latches firmly IN toward the center of the unit. **DO NOT FORCE THE TABS.** It may be easier to loosen one side first, then the other.
- (3) When the cover latches are loosened, then the top cover will swing upward and reveal the system control panel, cable connection panel and more.

#### **To Close the Projector Cover:**

- (1) To close simply reposition the cover over the latches and press firmly, Latches will then snap closed.
- (2) **IMPORTANT** - When finished working under the cover and latches have been initially secured. Move the latches **OUT TOWARD THE COVER EDGES**. This securely locks the cover to the projector.

## » Control Panel on the Projector

### 1. LAMP BUTTON:

Light On: Indicates the lamp has been used for more than 1900 hours.

Blinking: Indicates the lamp has been used for more than 2000 hours. Please change the lamp.

### 2. TEMP BUTTON

Blinking: Indicates the temperature inside the projector is abnormally high.

### 3. POWER BUTTON

Light On: During projection.

### 4. STANDBY BUTTON

Light On: In stand by mode.

Blinking: In cool down mode.

### 5. RGB BUTTON

Use this button to select a device connected to the [RGB1], [RGB2] or [RGB3] terminals.

### 6. VIDEO BUTTON

Use this button to select a device such as a video connected to the [VIDEO IN] terminal ([VIDEO] or [Y/C] Input terminal) of the projector.

### 7. POWER BUTTON

When this projector is in standby mode, pressing this button for more than 1 second will turn the projector on and cause the [POWER] indicator to light up. Press it one second or more again, and the projector goes into the cool down mode and finally into stand by mode.

- The [POWER] button will not work within approximately 1 minute of the light-source lamp being turned on. Hence wait about 1 minute before pressing.

### 8. SVC BUTTON

This button is to be used by Vidikron Service Technician.

### 9. V-KEystone BUTTONS

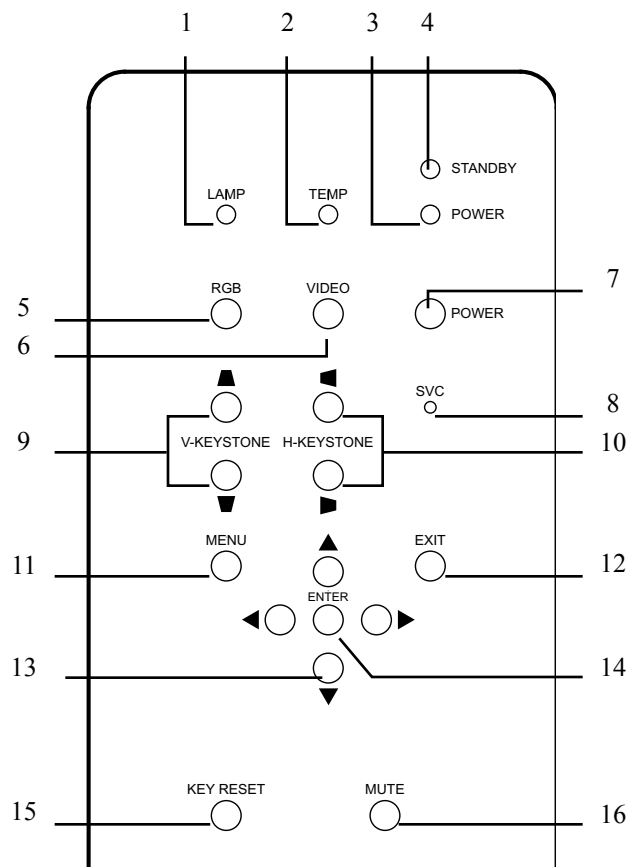
Use this button to remove the vertical trapezoidal distortion of the image projected on the screen.

### 10. H-KEystone BUTTONS

Use this button to remove the horizontal trapezoidal distortion of the image projected on the screen.

### 11. MENU BUTTON

Use this button to enter or exit the menu mode. When the main menu is displayed, pressing this button will cause the menu to disappear.



### 12. EXIT BUTTON

Press this button to display the previous menu (For example, from sub menu to main menu). Pressing this button when the main menu is displayed will erase the menu.

### 13. CURSOR BUTTON

These buttons are used in the menu mode to select an item, adjust the value etc.

### 14. ENTER BUTTON

Press this button to show the next menu (For example, from main menu to sub-menu). It is also used when [ENTER] is displayed against an item on the menu screen, or to choose the “Reset” option etc.

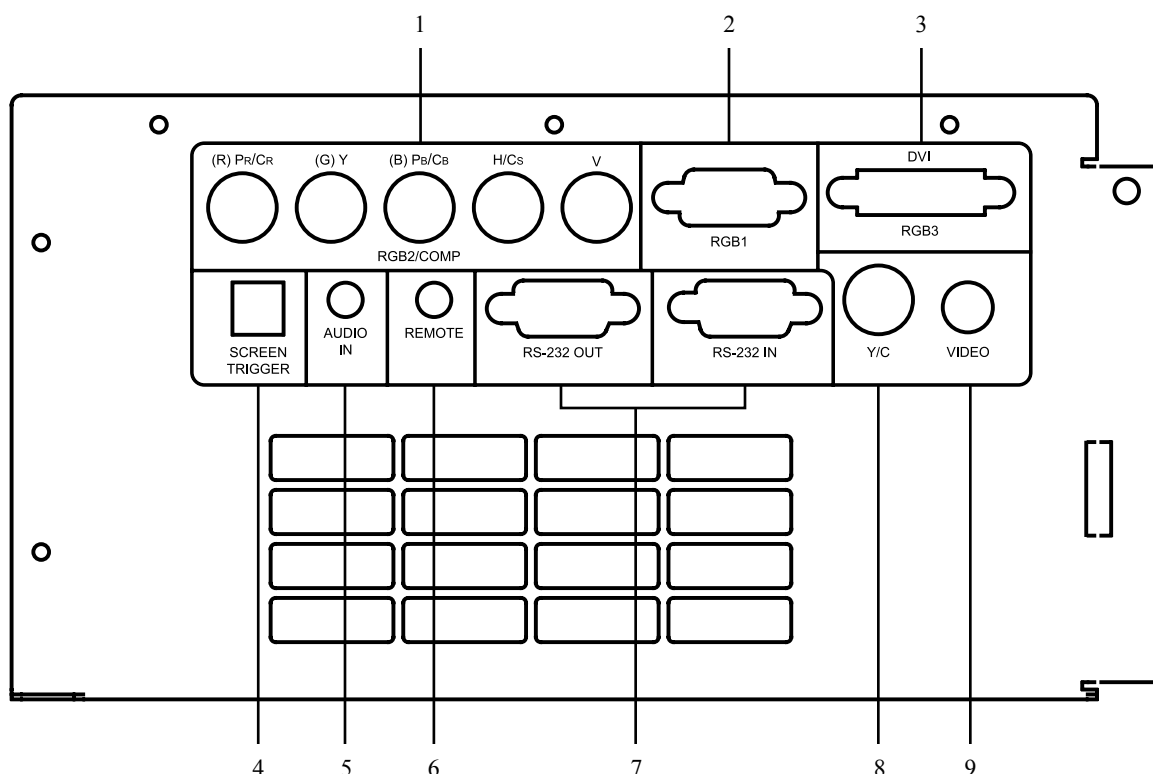
### 15. KEY RESET BUTTON

This [RESET] button only works as a reset button for the [SVC], [V-KEystone] and [H-KEystone] adjustments done on the control panel and the [SVC], [V-KEystone], and [H-KEystone] adjustments done on the remote control. When adjusting the volume, keystone or digital zoom (when the setting is displayed on the screen) the adjusted value is reset to that which was set when the projector was shipped from the factory. This button does not work for the menu (submenu) items.

### 16. MUTE BUTTON

Use this button to temporarily halt the audio and video output. Press again to resume.

## » Connector Panel



### 1. Input Terminal

This is an input terminal for component signals (Y, CB, CR) or DTV-format (Y, PB, PR) signals. Devices which have component signal output terminals can be connected. This terminal can also be used as multipurpose video input terminals that allow input of the following signals: analog RGB signals, vertical sync (V) signals, and horizontal sync (H) signals/ composite signals (Cs). Devices which have analog RGB signals output terminals can be connected.

To use this terminal, the “RGB2(BNC)” item in the “Options” menu must be set correctly according to the input signals.

- Input of external sync signals is automatically detected. Detection of H/V signals or Cs signals causes automatic switching to external sync. The priority order is H/V>Cs.
- When computer signals are input, the uppermost edge of the image may appear to bow if the sync signal input is a composite sync (Cs) or G on sync signal. In this case, use separate sync signals for vertical sync (V) and horizontal sync (H).

### 2. RGB1

This is an input terminal dedicated to computer signals (RGB Video signals and sync signals). Connect the display output terminal of the computer to this terminal. When a Macintosh computer is to be connected, use the conversion adapter (sold separately) for Mac.

- When computer signals are input, the uppermost edge of the image may appear to bow if the sync signal input is a composite sync (Cs) or G on sync signal. In this case, please use separate sync signals for vertical sync (V) and horizontal sync (H).

### 3. DVI (RGB3)

HDCP compatible video signals (480p, 720p 60/59 Hz, 1080i 60/59 Hz) and input terminal for personal computer (RGB) signal. Connect the display output terminal of the computer to this terminal.

- The menu screen for HDCP compatible signal input is the same as when RGB input is selected.

### 4. SCREEN TRIGGER

The signal output for controlling the roll-up screen that supports [SCREEN TRIGGER]. Outputs DC 12V/max. 100 mA when power is on.

## **5. AUDIO IN**

Not used.

## **6. REMOTE**

When the remote control is unable to work due to rear projection etc., the [REMOTE] terminal can be used to connect an external sensor to the projector. The external sensor is not generally sold. Check with your authorized Vidikron dealer.

## **7. CONTROL RS-232 IN/OUT**

This is the RS-232 OUT interface-specific terminal. The projector can be controlled by a computer connected externally. More than one projector can be controlled using both the [RS-232 IN] and [RS-232 OUT] terminals.

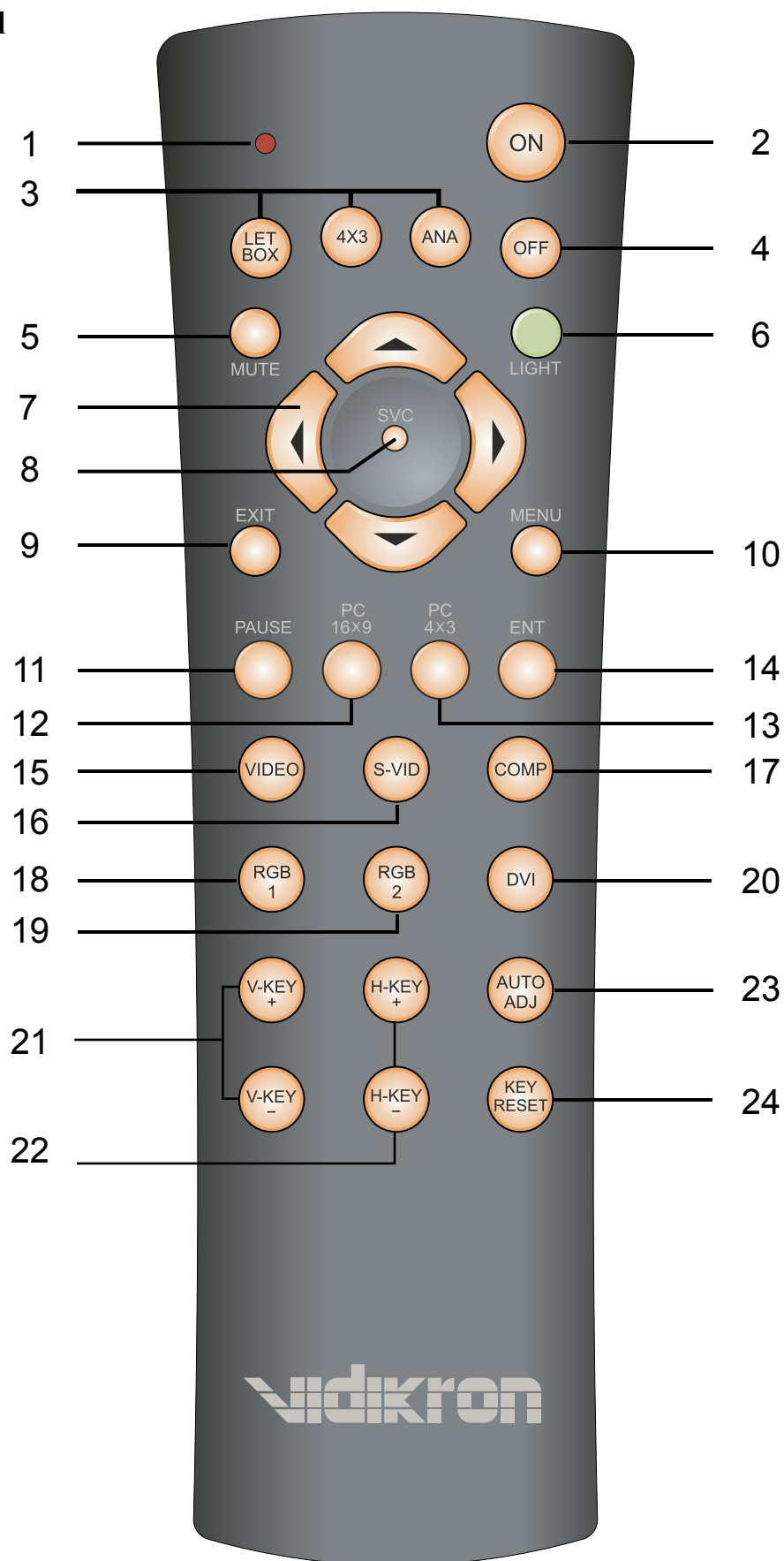
## **8. Y/C**

This is the input terminal for Y/C (S-Video) signals. Connect this terminal to the S-Video output terminal of a video deck, etc.

## **9. VIDEO**

This is an input terminal for composite video signals. Connect this terminal to the composite video output terminal of a VCR, etc.

## » Remote Control



## 1. IR OUTPUT INDICATOR

Illuminates when a button is pressed, indicating that an IR signal is being transmitted.

## 2. ON

Switches Power ON. (This does not operate when POWER/STANDBY indicator of the main unit is off.)

## 3. DIRECT ACCESS BUTTONS

These red buttons to the right hand-side will allow you direct access to an aspect ratio, based on the format of the input signal.

These buttons are:

- ANA** - selects Anamorphic (16:9) widescreen aspect ratio
- LETBOX** - selects Letterbox format aspect ratio
- 4x3** - selects Standard 4:3 aspect ratio

## 4. OFF

Switches Power OFF.

## 5. MUTE BUTTON

Use this button to temporarily halt the audio and video output. Press again to resume.

## 6. LIGHT BUTTON

Press this to illuminate the buttons.

## 7. CURSOR (▲ / ▼ / ◀ / ▶)

Use these buttons to select items or settings and to adjust settings or switch the display patterns.

UP Button: When no menus are present on-screen, the UP button will toggle through aspect ratios in the following order: (RATIO) Anamorphic → Cinema → Letterbox → Standard (4:3)

LEFT Button: When no menus are present on-screen, the LEFT button will toggle through the different sources in the following order: (INPUT) HD Pass Thru 2 → HD Pass Thru 1 → DVI 2 → DVI 1 → HD/RGB 2 → HD/RGB 1 → Component SD → S-Video 2 → S-Video 1 → Composite

DOWN Button: When no menus are present on-screen, the DOWN button will toggle through the different sources in the following order: (RATIO) Standard (4:3) → Letterbox → Cinema → Anamorphic

RIGHT Button: When no menus are present on-screen, the RIGHT button will toggle through the different sources in the following order: (INPUT) Composite → S-Video 1 → S-Video 2 → Component SD → HD/RGB 1 → HD/RGB 2 → DVI 1 → DVI 2 → HD Pass Thru 1 → HD Pass Thru 2

## 8. SVC BUTTON

This button is to be used by Vidikron Service Technician.

## 9. EXIT BUTTON

Press this button to display the previous menu (For example, from sub menu to main menu). Pressing this button when the main menu is displayed will erase the menu.

## 10. MENU BUTTON

Pressing this button will access the OSD (On-Screen Display) controls. Press this button during the display of the sub-menu to return to the previous menu, or exit the OSD menus.

## 11. PAUSE BUTTON

This button allows the image to be retained in the projector memory and stills the picture on the screen. Press the button once to pause the picture and again to release.

**12. PC 16x9 BUTTON**

Use this button to select 16x9 aspect ratio for computer signal.

**13. PC 4x3 BUTTON**

Use this button to select 4x3 aspect ratio for computer signal.

**14. ENT (Enter) BUTTON**

Press this button to show the next menu (For example, from main menu to sub-menu). It is also used when [ENTER] is displayed against an item on the menu screen, or to choose the “Reset” option etc.

**15. VIDEO BUTTON**

Press this button to select VIDEO (composite video) as the source.

**16. S-VID (S-Video) BUTTON**

Press this button to select S-Video input.

**17. COMP (Component) BUTTON**

Press this button to select Component SD (480i/576i) input.

**18. RGB1 BUTTON**

Press this button to select RGB1 input.

**19. RGB2 BUTTON**

Press this button to select RGB2 input.

**20. DVI BUTTON**

Press this button to select DVI signal input.

**21. V-KEY+ / V-KEY-**

Use these buttons to adjust the vertical trapezoidal distortion of the image projected on the screen.

**22. H-KEY+ / H-KEY-**

Use these buttons to adjust the horizontal trapezoidal distortion of the image projected on the screen.

**23. AUTO ADJ (Adjust) BUTTON**

Use this button to automatically adjust the projected image's (i) horizontal and vertical position, (ii) width and display area, etc. During alignment, the message “AUTO ADJ...” appears on the screen and disappears when alignment is complete.

- The Quick Alignment function only works when the signal is input from either the [RGB1] or [RGB2] terminal. It does not work when the signal is input from the [VIDEO] input terminal or the [Y/C] input terminal.
- When input signal from [RGB3] input terminal is received, “AUTO ADJ...” is displayed but it is not functional.

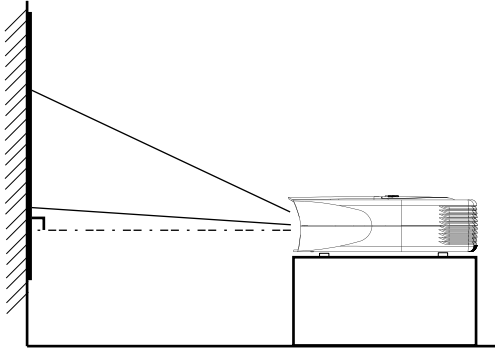
**24. KEY RESET BUTTON**

This [RESET] button only works as a reset button for the [SVC], [V-KEY] and [H-KEY] adjustments done on the control panel and the [SVC], [V-KEY], and [H-KEY] adjustments done on the remote control. When adjusting the volume, keystone or digital zoom (when the setting is displayed on the screen) the adjusted value is reset to that which was set when the projector was shipped from the factory. This button does not work for the menu (submenu) items.

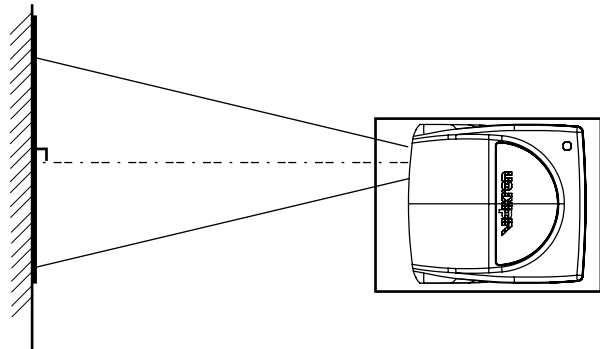
# INSTALLING THE PROJECTOR

## » Installing the Projector against the Screen

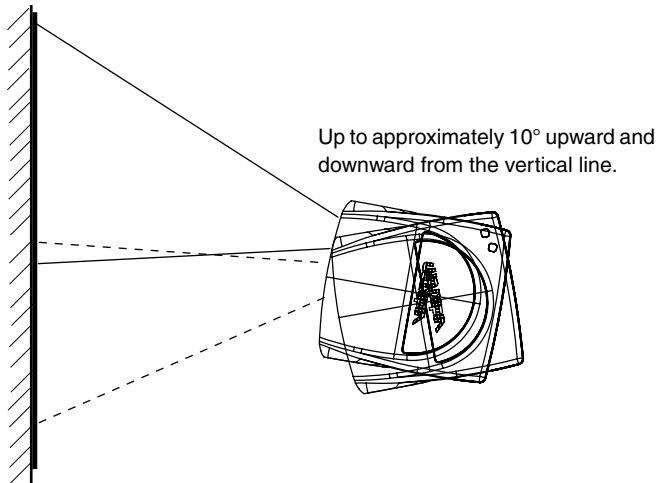
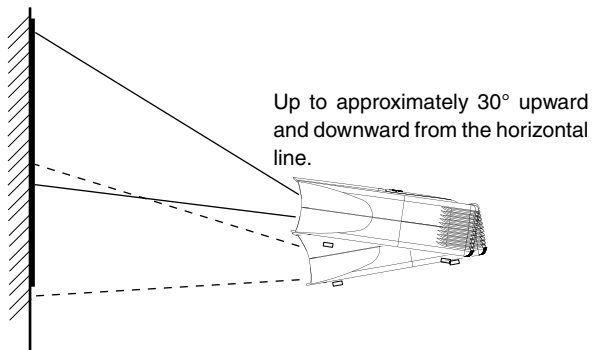
### ■ Side View



### ■ Top View



- Trapezoidal-distortion can be corrected using the [KEystone]\* buttons on the projector.

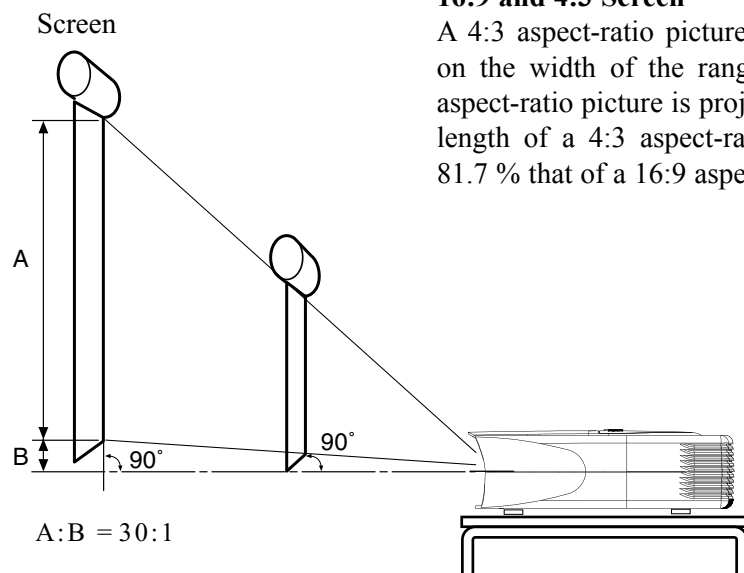


\* If the KEYSTONE compensation is used simultaneously for upper/lower/left/right directions, the compensating range will decrease.

## » Projection Distance and Screen Size

- This projector uses 1.3x manual zoom lens for projection.
- Although the focusable projection distance is about 1.6 m ~ 12 m, the projection distance recommendable for performance is about 2 m ~ 8 m. Install the projector within this range and adjust the screen size when the aspect ratio of the screen is 16:9.
- If the KEYSTONE is adjusted, the screen becomes smaller.

### Screen Installation



### Throw Distance Chart

| Enter the width of your screen (16X9 screen) in inches |              |                    |                     |         |
|--------------------------------------------------------|--------------|--------------------|---------------------|---------|
| Screen Height                                          | Screen Width | min TD from SW     | max TD from SW      | Offset* |
| 33 1/2                                                 | 60           | 120.00             | 150.00              | 1.12    |
| 40 1/2                                                 | 72           | 144.00             | 180.00              | 1.35    |
| 45                                                     | 80           | 160.00             | 200.00              | 1.50    |
| 47                                                     | 84           | 168.00             | 210.00              | 1.57    |
| 49                                                     | 87           | 174.00             | 217.50              | 1.63    |
| 50                                                     | 89           | 178.00             | 222.50              | 1.67    |
| 50 1/2                                                 | 90           | 180.00             | 225.00              | 1.69    |
| 51 1/2                                                 | 92           | 184.00             | 230.00              | 1.72    |
| 54                                                     | 96           | 192.00             | 240.00              | 1.80    |
| 56                                                     | 100          | 200.00             | 250.00              | 1.87    |
| 58 1/2                                                 | 104          | 208.00             | 260.00              | 1.95    |
| 60                                                     | 107          | 214.00             | 267.50              | 2.00    |
| 62 1/2                                                 | 111          | 222.00             | 277.50              | 2.08    |
|                                                        |              | 2.00x Screen Width | 2.50 x Screen Width |         |

\*Center of Lens to Screen Top (Inverted) or Screen Bottom (Upright)

## CONNECTING TO VARIOUS DEVICES

### » Signals that can be input into the projector

#### • Video Signals

##### (1) Response to Decoder

| Input Terminal \ Decoder                 | NTSC            | NTSC 4.43       | PAL             | SECAM           |
|------------------------------------------|-----------------|-----------------|-----------------|-----------------|
| [VIDEO]                                  | O               | O               | O               | O               |
| [Y/C]                                    | O               | O* <sup>1</sup> | O               | -----           |
| [Y], [PB/CB], [PR/CR]* <sup>3</sup>      | O* <sup>2</sup> | O* <sup>2</sup> | O* <sup>2</sup> | O* <sup>2</sup> |
| [G], [B], [R], [H/Cs], [V]* <sup>4</sup> | O* <sup>2</sup> | O* <sup>2</sup> | O* <sup>2</sup> | O* <sup>2</sup> |

\*<sup>1</sup> : Responds if Y/C output is available.

\*<sup>2</sup> : Signifies that component signals (Y, Pb, Pr/Y, B-Y, R-Y/G, B, R, H/Cs, V) conform to the signal timing (synchronization and video period) of each decoder. The decoders are used for convenience.

\*<sup>3</sup> : To use these signals, it is required to set the “RGB2(BNC)” item in the “Projector Opt” menu to “YPbPr”.

\*<sup>4</sup> : To use these signals, it is required to set the “RGB2(BNC)” item in the “Projector Opt” menu to “RGB”.

##### (2) Responds to double density\*<sup>5</sup>, high-vision signals.

| Input Terminal \ Decoder                 | NTSC* <sup>6</sup> | PAL* <sup>7</sup> | High-vision signal |
|------------------------------------------|--------------------|-------------------|--------------------|
| [Y], [PB/CB], [PR/CR]* <sup>8</sup>      | O                  | O                 | O                  |
| [G], [B], [R], [H/Cs], [V]* <sup>9</sup> | O                  | O                 | O                  |

\*<sup>5</sup> : Signals of which density of scanning lines per field is twice as high.

\*<sup>6</sup> : Responds to signals of which the horizontal scanning frequency is 31.47 kHz. NTSC can be made twice as dense by a line doubler (separately available: recommended article). It can also respond to fully-specified, decoded wide-clear-vision signals and decoded 525p progressive signals.

\*<sup>7</sup> : Responds to signals of which the horizontal scanning frequency is 31.25 kHz. PAL can be made twice as dense by a line doubler (separately available: recommended article).

\*<sup>8</sup> : To use these signals, it is required to set the “RGB2(BNC)” item in the “Projector Opt” menu to “YPbPr”.

\*<sup>9</sup> : To use these signals, it is required to set the “RGB2(BNC)” item in the “Projector Opt” menu to “RGB”.

##### (3) Response to DTV-format signals

DTV-format signals (480i, 480p, 720p, 1080i) can be input to the [Y], [PB/CB], [PR/CR]\*<sup>10</sup> input terminals.

\*<sup>10</sup> : To use these signals, it is required to set the “RGB2(BNC)” item in the “Projector Opt” menu to “YPbPr”.

#### • Computer Signals

Computer signals can be input to the [RGB1], [RGB2], ([G], [B], [R], [H/Cs], [V])\*<sup>11</sup> or [RGB3] (DVI-D) terminals.

\*<sup>11</sup> : It is required to set the “RGB2(BNC)” item in the “Projector Opt” menu to “RGB”.

##### Scanning frequencies in the following ranges can be inputted.

Horizontal scanning frequency : 15 kHz ~ 120 kHz

Vertical scanning frequency : 24 Hz, 25 Hz, 30 Hz, 50 Hz ~ 120 Hz

##### Be sure that the computer used meets the following conditions.

- The computer has a video signal output port.

Confirm if the computer has a video signal output port by consulting the computer's manual. The video signal output port is generally called RGB port, monitor port, or video port. In the case where the computer comes with a built-in monitor, e.g.; a notebook, an external output port may need to be purchased. Also, note that an external output port cannot be installed in some computers.

- The resolution and the scanning frequencies are within the range specified in the table on page 19.

Be sure that the resolution and the scanning frequencies of the video signal are within this range. Video signals out of this range should not be used. (Out of range signals can be projected but the image may not turn out sharp. Signals within the range may occasionally require adjustment, depending on the video board used). When signals other than those listed in the table on page 19 are input, the image could be partially erased or unwanted folds-over the image could appear. Some signals within the frequency range may not be displayed normally depending on the type of the signal. Composite sync (Cs) and G on Sync signals cannot be handled depending on the devices connected.

• **HDCP compatible signal**

[RGB3 DVI] input terminal can accept HDCP compatible video signals (480p, 720p 60/59 Hz, 1080i 60/59 Hz). The menu is same as when RGB input is selected.

• **Allowable input signals**

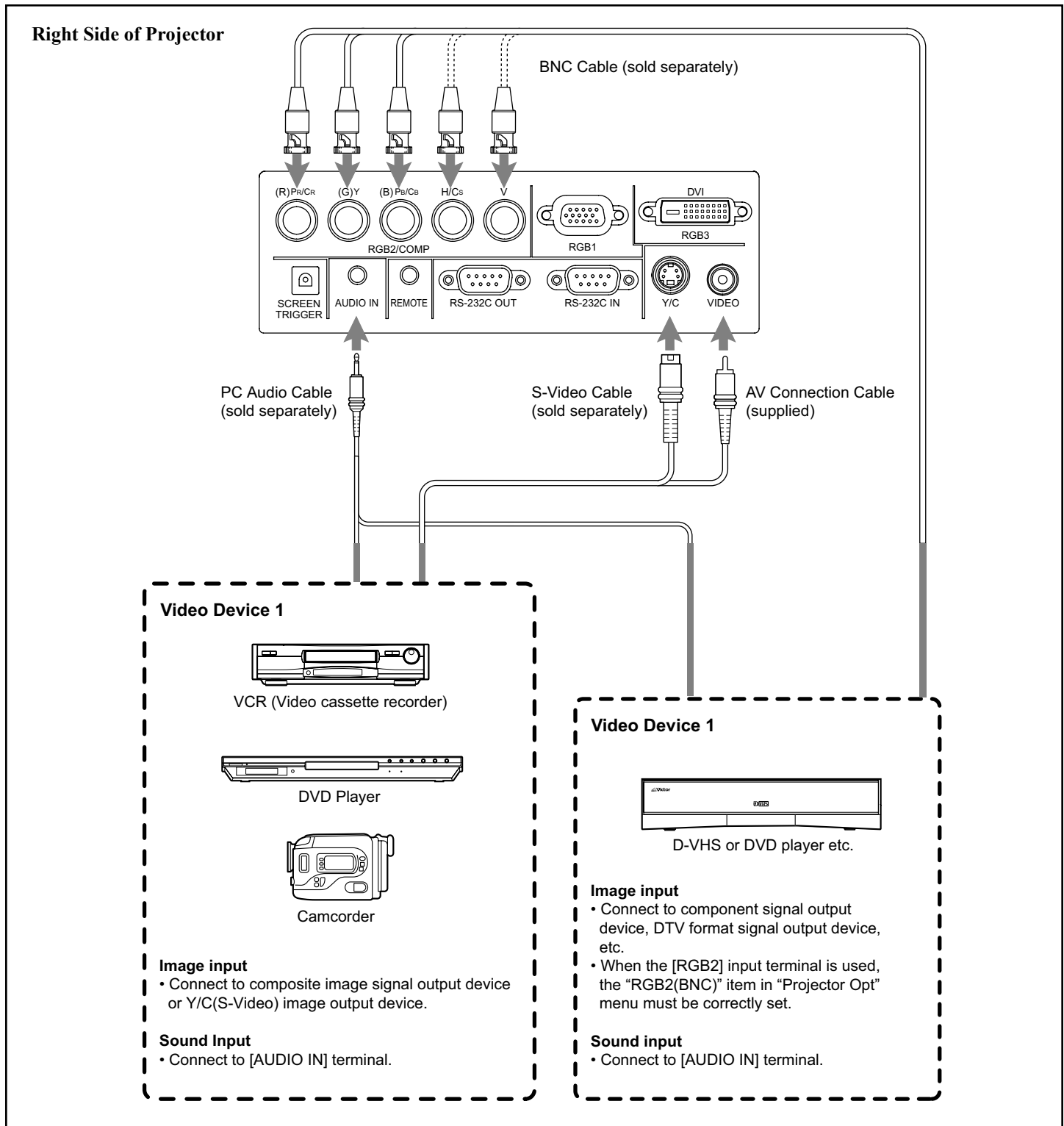
| Signal       |        |                    | Horizontal Resolution<br>Hor (Pixels) | Vertical Resolution<br>Ver (Lines) | Horizontal Frequency<br>V (Hz) | Vertical Frequency<br>V (Hz) |
|--------------|--------|--------------------|---------------------------------------|------------------------------------|--------------------------------|------------------------------|
| PC System    | PC98   | VESA350            | 640                                   | 350                                | 37.86                          | 84.13                        |
|              | PC/AT  | PC98               | 640                                   | 400                                | 24.83                          | 56.42                        |
|              | DOS/V  | VGA 60 Hz*         | 640                                   | 480                                | 31.47                          | 59.94                        |
|              | DVI*   | VGA 72 Hz          | 640                                   | 480                                | 37.86                          | 72.81                        |
|              |        | VGA 75Hz           | 640                                   | 480                                | 37.50                          | 75.00                        |
|              |        | VGA 85 Hz          | 640                                   | 480                                | 43.27                          | 85.01                        |
|              |        | SVGA 56            | 800                                   | 600                                | 35.16                          | 56.25                        |
|              |        | SVGA 60            | 800                                   | 600                                | 37.88                          | 60.32                        |
|              |        | SVGA 72            | 800                                   | 600                                | 48.08                          | 72.19                        |
|              |        | SVGA 75            | 800                                   | 600                                | 46.88                          | 75.00                        |
|              |        | SVGA 85            | 800                                   | 600                                | 53.67                          | 85.06                        |
|              |        | XGA 43 Hz          | 1024                                  | 768/2                              | 35.52                          | 43.48                        |
|              |        | XGA 60 Hz          | 1024                                  | 768                                | 48.36                          | 60.00                        |
|              |        | XGA 70 Hz          | 1024                                  | 768                                | 56.48                          | 70.07                        |
|              |        | XGA 75 Hz          | 1024                                  | 768                                | 60.02                          | 75.03                        |
|              |        | XGA 85 Hz          | 1024                                  | 768                                | 68.68                          | 85.00                        |
|              |        | SXGA 43 Hz         | 1280                                  | 1024/2                             | 46.43                          | 43.44                        |
|              |        | SXGA 60 Hz         | 1280                                  | 1024                               | 63.98                          | 60.02                        |
|              |        | SXGA 75 Hz         | 1280                                  | 1024                               | 79.98                          | 75.03                        |
|              |        | SXGA 85 Hz         | 1280                                  | 1024                               | 91.15                          | 85.02                        |
|              |        | SXGA +60 Hz*       | 1400                                  | 1050                               | 64.02                          | 60.00                        |
|              | Mac    | MAC13              | 640                                   | 480                                | 35.00                          | 66.67                        |
|              |        | MAC16              | 832                                   | 624                                | 49.73                          | 74.55                        |
|              |        | MAC19              | 1024                                  | 768                                | 60.24                          | 74.93                        |
|              |        | MAC21              | 1152                                  | 870                                | 68.68                          | 75.06                        |
| VIDEO System | Video  | HDTV (1035i) 60 Hz |                                       |                                    | 33.75                          | 60.00                        |
|              | DVI*   | HDTV (1035i) 59 Hz |                                       |                                    | 33.72                          | 59.94                        |
|              | (HDCP) | 480p*              | 720                                   | 483                                | 31.47                          | 59.94                        |
|              |        | 720p 60 Hz*        | 1280                                  | 720                                | 45.00                          | 60.00                        |
|              |        | 720p 59 Hz*        | 1280                                  | 720                                | 44.96                          | 59.94                        |
|              |        | 1080i 60 Hz*       | 1920                                  | 1080/2                             | 33.75                          | 60.00                        |
|              |        | 1080i 59 Hz*       | 1920                                  | 1080/2                             | 33.72                          | 59.94                        |
|              |        | 1080i 50 Hz        | 1920                                  | 1080/2                             | 28.25                          | 50                           |
|              |        | 1080 30SF/30P      | 1920                                  | 1080                               | 33.750                         | 60/30                        |
|              |        | 1080 25SF/25P      | 1920                                  | 1080                               | 28.125                         | 50/25                        |
|              |        | 1080 24SF/24P      | 1920                                  | 1080                               | 27.000                         | 48/24                        |
|              |        | NTSC               |                                       |                                    | 15.734                         | 60                           |
|              |        | PAL                |                                       |                                    | 15.625                         | 50                           |
|              |        | SECAM              |                                       |                                    | 15.625                         | 50                           |

## » Connecting to Devices

Before connection, be sure to turn off both the projector and the device.

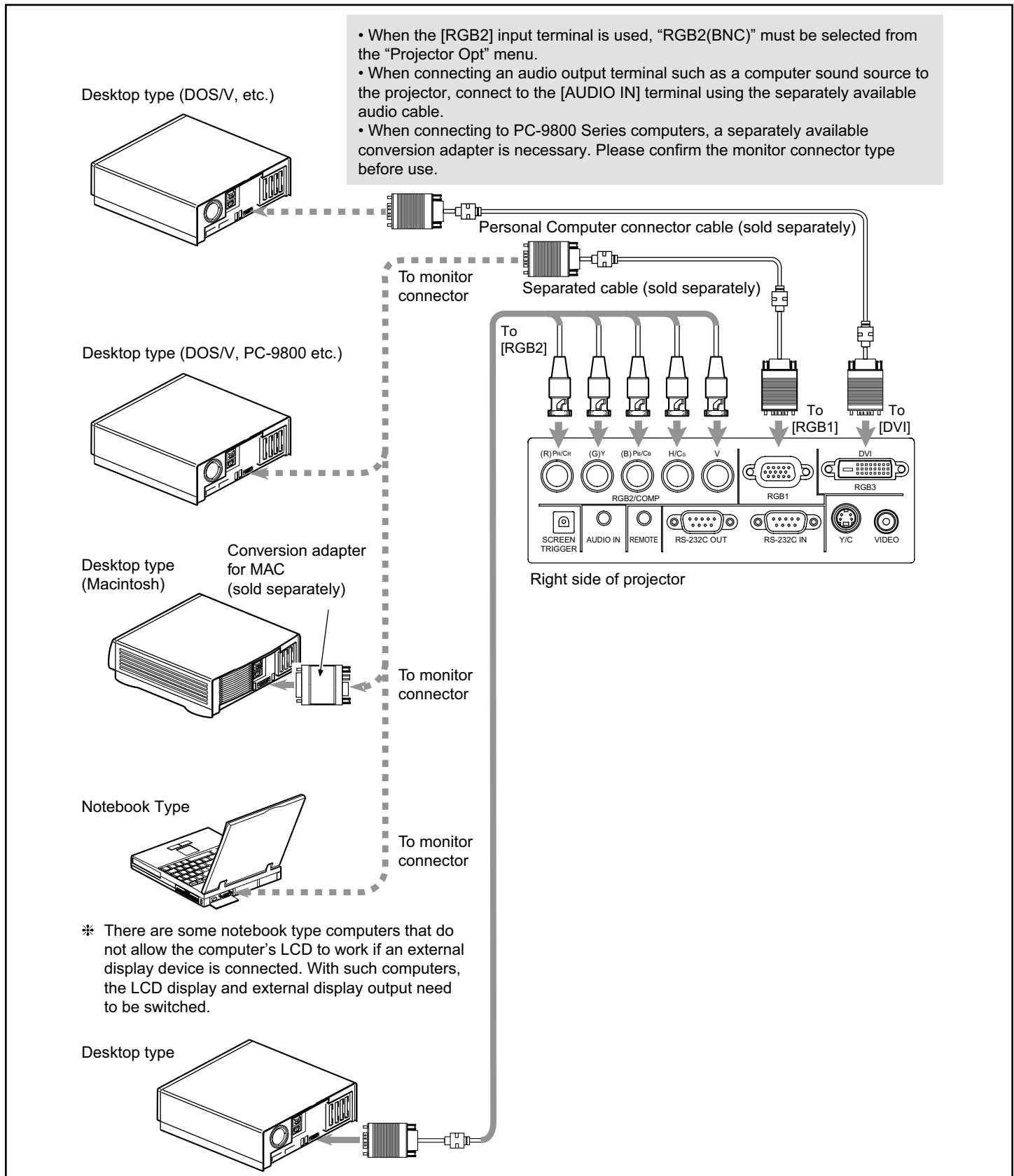
### • Connecting to Video Devices

- Thoroughly read the manual that comes with each video device.
- Use the supplied AV connection cable. S-Video (Y/C) cable, BNC cable and PC Audio cables are not supplied.



## • Connecting to Computers

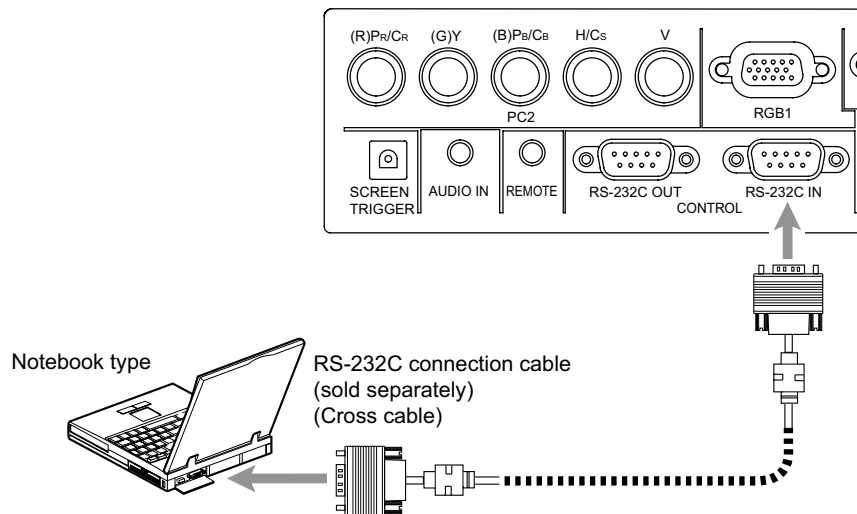
- Thoroughly read the manual that comes with the computer used.
- Prepare cables for connecting the devices.



### • Control from External Device

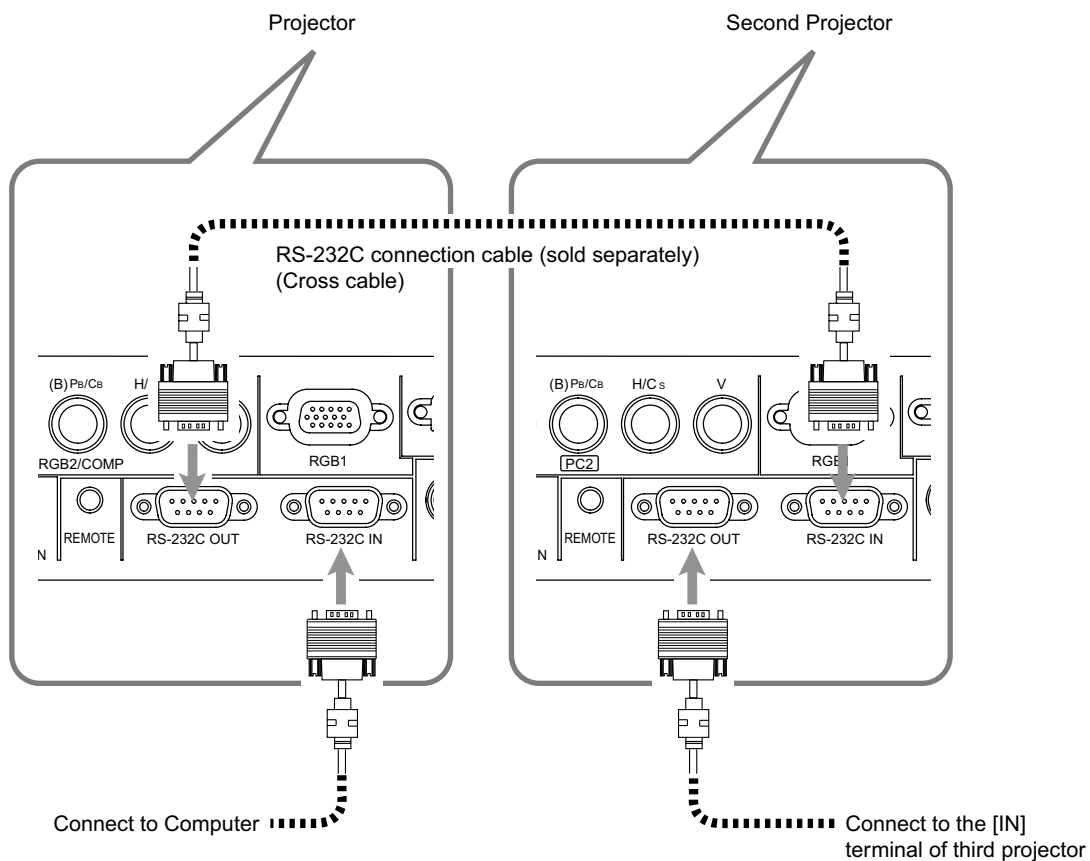
It is possible to control the projector with a computer by connecting the computer to the [RS232C IN] terminal of the projector.

- Please request a connection cable from us if needed.
- For more information, please contact your authorized Vidikron dealer.



### Connection for controlling more than one projector

By using the [RS-232] terminal, more than one projector can be controlled simultaneously by one computer. Connect these projectors in series by connecting the [OUT] terminal of the first projector to the [IN] terminal of the second projector, then the [OUT] terminal of the second projector to the [IN] terminal of the third projector, etc.

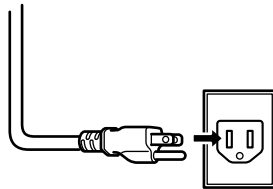


**• Connecting the Power Cord (Supplied)**

After all devices have been connected, connect the supplied power cord.

**1.** Connect the supplied power cord to the power input terminal of the projector.

**2.** Insert the main plug of the supplied power cord into the wall outlet.



(e.g.)

**Cautions Against Fire and Electric Shock**

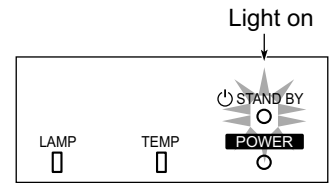
- **Since the power requirement of the projector is high, please insert the power plug directly into a wall outlet.**
- When not using devices, remove the power plug from the wall outlets.
- Do not use power cords other than those supplied.
- Do not use a power voltage different from that which is indicated.
- Do not cut, tear or modify the power cords. Also, do not put a heavy object on, heat, or stretch the power cords, otherwise they may be damaged.
- Do not insert or pull out the plugs with a wet hand.

# BASIC OPERATION

Once the basic settings are done, follow the procedures below:

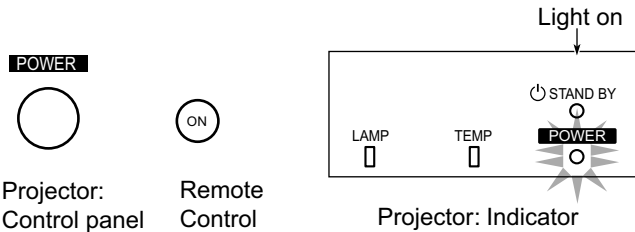
## 1. Power On

1. Insert the power cord into the wall outlet
  - The [STAND BY] indicator lights up when the main power is inputted.



Projector: Indicator

2. Press the [POWER] button on the projector (or the [ON] button on the remote control unit) for one second or more
  - The [POWER] indicator lights up and the projected image slowly appears.

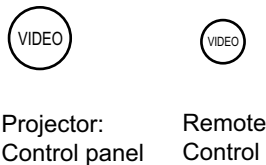


### Notes

- Upon projection, the image may flicker for a few seconds, but this is not a malfunction.
- When the lamp is turned on, it will slowly become brighter. It will take more than a minute for the brightness to stabilize.

## 2. Selecting the image to be projected

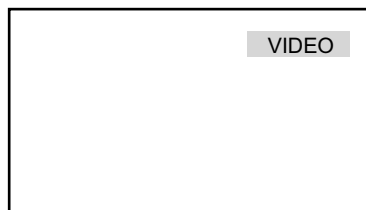
- Press [VIDEO] to select which of the image devices of those connected to the [VIDEO IN] ([VIDEO] or [Y/C]) terminals is output.



- Each time you press either button, the selected input changes as follows.

[VIDEO] ↔ [Y/C] [VIDEO]: Image from the input [VIDEO] terminal on the right hand side of projector will be projected.

[Y/C]: Image from the input [Y/C] terminal on the right hand side of the projector will be projected.



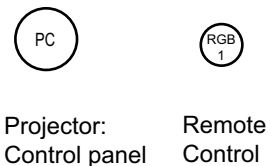
Screen display

When "Line display" is set to "5sec": After changing an input, the new selection will appear on the screen for about 5 seconds.

### Notes

- Sound is formed from sound signals connected to the [AUDIO IN] terminal.
- When no image is input to the selected input terminal, the message "No Input" is displayed on the screen.

- To select a computer or other devices connected to [RGB1], [RGB2/COMP] or [RGB3/DVI]: Press [RGB]



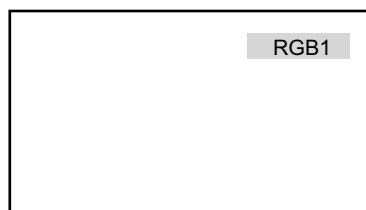
- Upon pressing the button, the input mode changes as follows.

RGB1 → RGB2/COMP → RGB3/DVI

[RGB1]:Projects image from [RGB1] input terminal on the right hand side of the projector.

[RGB2]:Projects image from [RGB2] input terminal on the right hand side of the projector

[RGB3]:Projects image from [RGB3] input terminal on the right hand side of the projector.



Screen display

When "Line display" is set to "5sec": After changing an input, the new selection will appear on the screen for about 5 seconds.

### Notes

- Sound is formed from sound signals connected to the [AUDIO IN] terminal.
- When no image is input to the selected input terminal, the message "No Input" is displayed on the screen.
- When the [RGB2] input terminal is used, "RGB2(BNC)" must be selected from the "Projector Opt" item in the main menu.

### 3. Adjusting the Zoom Ring (the screen size)

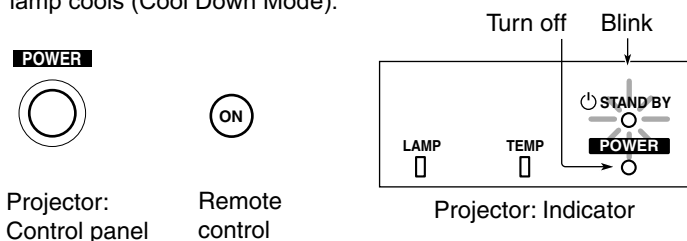
- To enlarge the screen size: Turn the zoom ring towards the 'Wide side'
- To reduce the screen size: Turn the zoom ring towards 'Teleside'

### 4. Adjusting the Focus Ring (Focus)

- To focus on nearer points: Turn the focus ring towards the 'Near side'
- To focus on farther points: Turn the focus ring towards the 'Far side'

### 5. Power Off

1. Press the [POWER] button on the projector (or the [ON] button on the remote control unit ) for 1 second or more.
  - The [POWER] indicator will disappear, the [STAND BY] indicator starts to blink, and the projector goes into the cooldown mode. The [STAND BY] indicator will continue blinking for approximately 90 seconds as the temperature of the light source lamp cools (Cool Down Mode).



#### Note

- The [POWER] button will not work for approximately 1 minute from when the light-source lamp is turned on. Wait approximately 1 minute before pressing.

2. Plug out the power cord from wall outlet

#### Caution

- Please do not pull out the plug from the power source when the [STAND BY] indicator is blinking. It will shorten the life of the lamp and cause a malfunction.

## » Frequently Used Convenient Functions

When an image is projected onto the screen, the following operations can be performed directly without going through the menu operation.

- 1 MUTE
- 2 PAUSE
- 3 KEYSTONE
- 4 AUTO ADJ.

### 1 Turning Off Image and Sound

Video images can be turned off temporarily.

**Press the [MUTE] button once**

- Images and audio output turned off.



Projector:  
Control panel



Remote  
control

Press the [MUTE] button again.

**Images return on again**

#### Note

- When the projected image input is changed, the MUTE function is cancelled and image and sound return.

### 2 Displaying a Still Picture

The projected image can be paused temporarily.

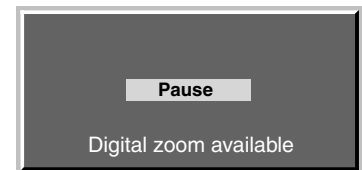
- This operation cannot be operated by the projector buttons. Please use the remote control unit.

**Press the [PAUSE] button**

- The image pauses after the [PAUSE] button is pressed for a few seconds and a message "Pause" is shown in the center of the screen. An icon indicating [PAUSE] mode will be displayed on the top right corner of the screen.



Remote control



[PAUSE] icon

**To release the image**

When you press the [PAUSE] button again, the image releases and resumes.

#### Notes

- After releasing a still image, note that the projector will not play the image that comes immediately after. (Should you want to play the image that comes immediately after that at which the [PAUSE] button was pressed, please pause the image using the controls at the input device.)
- [MENU], [AUTO ADJ.], [H-KEY] and [V-KEY] buttons do not function when the image is still.
- The "Pause" message will disappear after 5 seconds. To forcibly clear "Pause", please press the [EXIT] button.

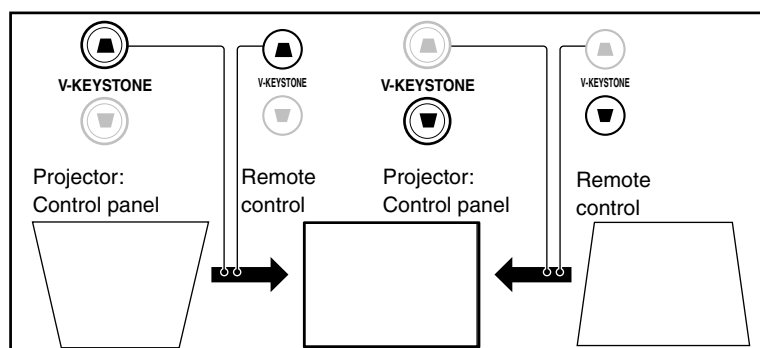
### 3 Removing the Trapezoidal Distortion of the Image

Depending on the angle of projection onto the screen, the image may be distorted in a trapezoid form.

When installing the projector or screen for the first time, or when reinstalling in other rooms, etc., Keystone adjustments need to be made to remove trapezoid distortions.

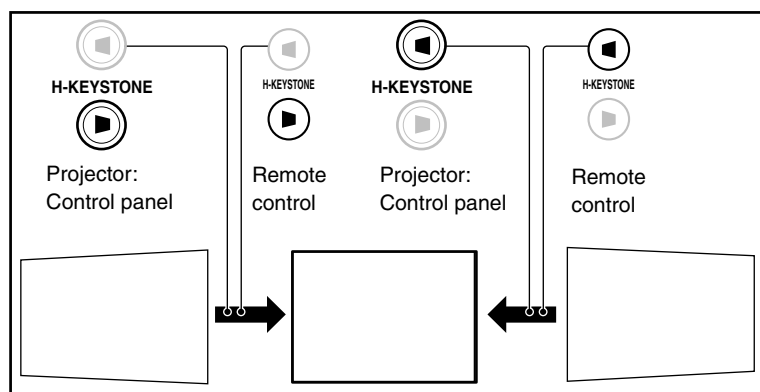
#### 1. Press [V-KEY] ▲/▼ to adjust the trapezoid form in the vertical direction

- A “Vert.keystone” display appears on the screen, and the projector goes into the KEYSTONE MODE. Press button (▲/▼) in the direction that corrects the trapezoid form.



#### 2. Press [H-KEY] ◀/▶ to adjust the trapezoid form in the horizontal direction

- A “Horiz.Keystone” display appears on the screen, and the projector goes into the KEYSTONE MODE. Press button (◀/▶) in the direction that corrects the trapezoid form.



### 4 Using the Auto Adjust function

The Auto Adjust function automatically adjusts (sets) the screen settings of the image input from the [RGB1] or [RGB2] input terminal.

- This can only be performed with the remote control.

**Press the [AUTO ADJ.] (Auto Adjust) button.**

- During automatic alignment, “AUTO ADJ...” appears on the screen, and disappears after alignment is complete.

#### Notes

- The range where the trapezoidal distortion can be rectified is **30° vertically and 10° horizontally** with respect to the projector screen. However, when both are rendered together, the range of effective rectification will be narrower.
- The picture quality may deteriorate when performing KEYSTONE compensation. It is recommended to place the projector perpendicularly to the screen.
- Depending on the signal inputted, the keystone adjustment range may narrow or parts of the image may disappear. This is not a malfunction.
- Interference patterns may appear on the screen when adjusting the keystone. This is not a malfunction.
- To restore the original set value, press the [RESET] button when adjusting the [V-KEY] and [H-KEY]. (Adjusted value: 0)

#### Notes

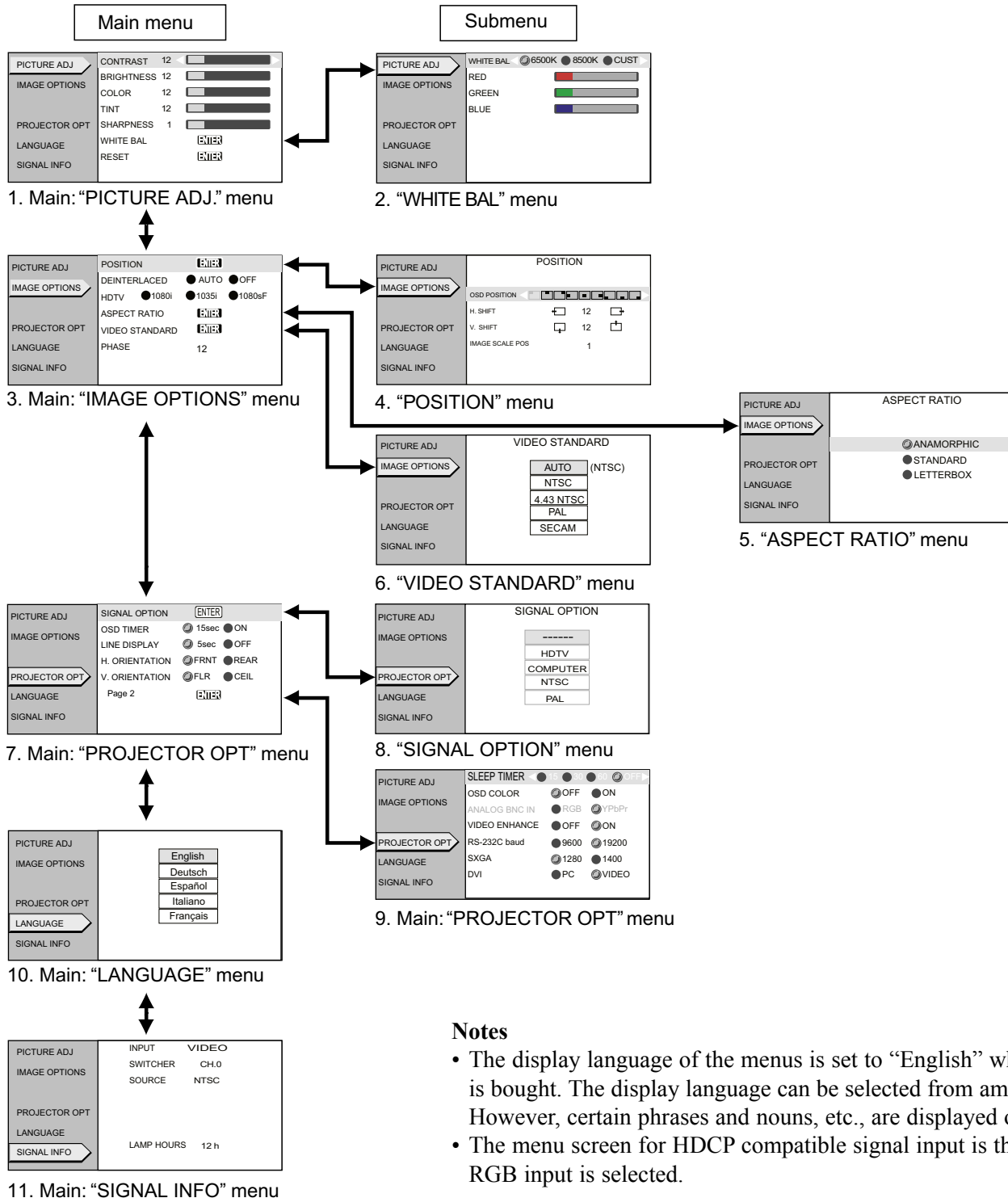
- The Auto Adjust function only works when computer signals are input into either the [RGB1] or [RGB2] input terminal.**
    - It does not work when signals are input via a [VIDEO IN] terminal (The [VIDEO] or [Y/C] input terminal).
    - When input signal from [RGB3] input terminal is received, “AUTO ADJ...” is displayed but it is not functional.
  - The Auto Adjust function.**
    - This automatically adjusts “H-Shift”, “V-Shift”, “Phase”, “Tracking”, etc.
  - Using the Auto Adjust function for automatic adjustments.**
    - Please use with bright still-pictures. This function may not work correctly on a dark picture or a motion-video.
- If adjustment with the Auto Adjust function is not satisfactory, adjust “H-Shift” and “V-Shift”, “Phase” and “Tracking” individually.

# ADJUSTMENT AND SETTINGS USING MENUS

The menus displayed on the screen are used to setup the projector and perform adjustments.

## » Menu Structure

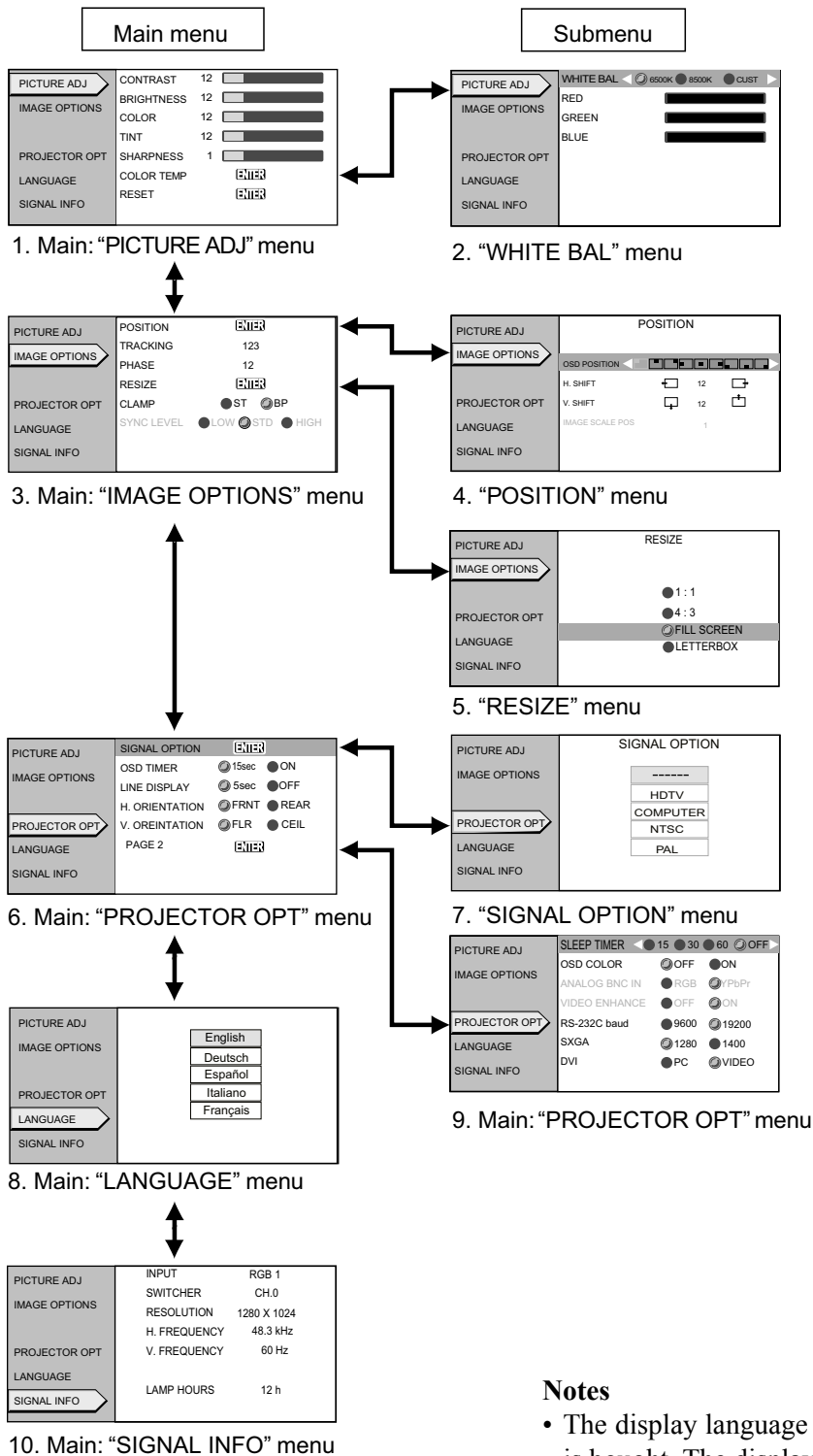
When video input is selected...



### Notes

- The display language of the menus is set to "English" when the projector is bought. The display language can be selected from among 5 languages. However, certain phrases and nouns, etc., are displayed only in English.
- The menu screen for HDCP compatible signal input is the same as when RGB input is selected.

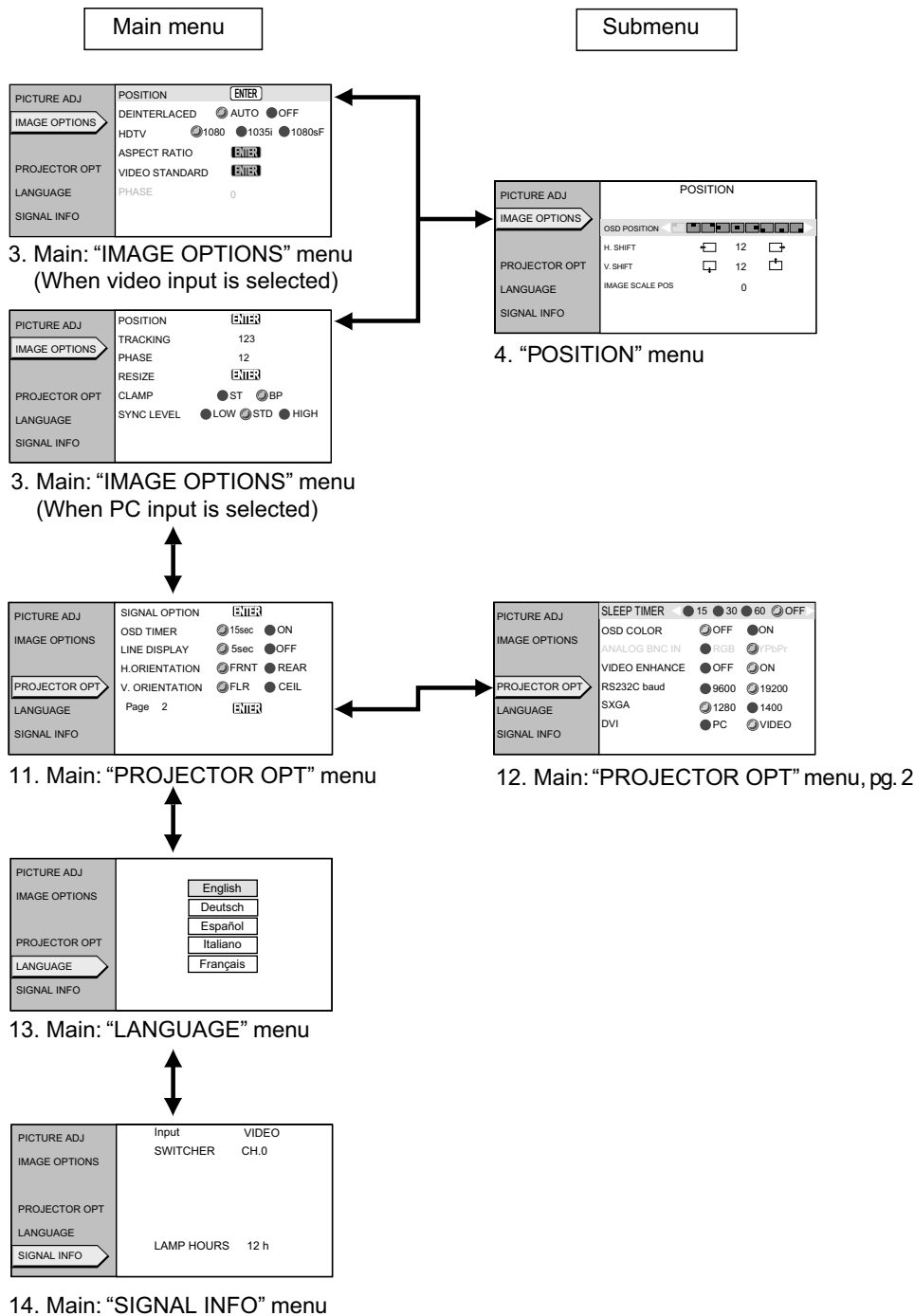
### » When RGB input is selected...



## Notes

- The display language of the menus is set to “English” when the projector is bought. The display language can be selected from among 5 languages. However, certain phrases and nouns, etc., are displayed only in English.
- The menu screen for HDCP compatible signal input is the same as when RGB input is selected.

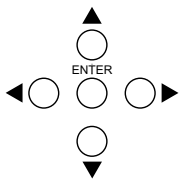
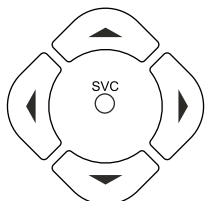
» When no image signal is inputted...



**Notes**

- The display language of the menus is set to "English" when the projector is bought. The display language can be selected from among 5 languages. However, certain phrases and nouns, etc., are displayed only in English.
- The menu screen for HDCP compatible signal input is the same as when RGB input is selected.

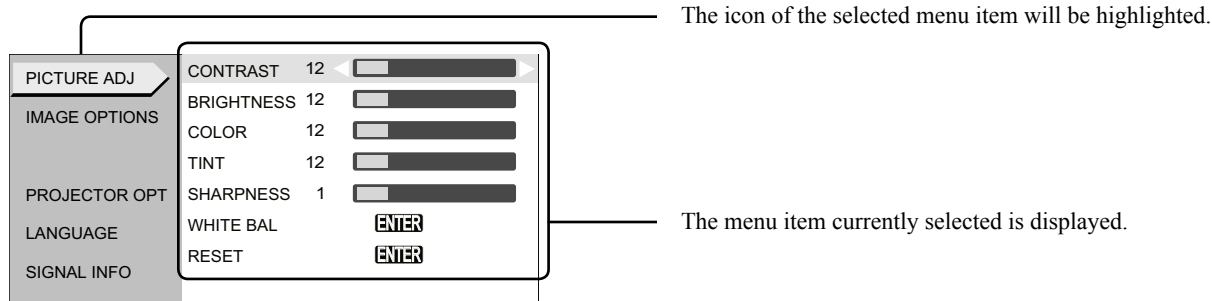
## » Menu Operation Buttons

| Button                                                                                                                                                                                                            |                                                                                           | Function                                                                                                                                                                                                                            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Main unit                                                                                                                                                                                                         | Remote control                                                                            |                                                                                                                                                                                                                                     |
| MENU<br>                                                                                                                         |          | Displays the main menu on the screen.<br>• When the main menu is displayed, press to exit the menu mode.                                                                                                                            |
|                                                                                                                                  | ENT<br>  | Confirm the selected item on main menu.<br>Press to shift to the “Image Options” screen of the selected item against which [ENTER] is displayed.                                                                                    |
| EXIT<br>                                                                                                                         | EXIT<br> | Press to return to the previous menu.<br>• While the main menu is displayed, press to exit the menu mode.                                                                                                                           |
| <br>Main unit<br><br><br>Remote control unit |                                                                                           | <p>▲/▼ : Select menu items and adjustment items.</p> <p>◀/▶ : Perform setting of the selected adjustment item.<br/>(Some items are not possible for setting)<br/>The adjusted value will be reflected to the image immediately.</p> |

## » The Procedure for Menu Operation

### 1. Press the [MENU] button

The main menu is displayed on the screen.



E.g. Main menu when video input is selected: “PICTURE ADJ”

### 2. Press the cursor buttons (▲/▼) to select a main menu item.

- The content of the selected item is displayed on the right side of the screen.
- When “Signal Info” is chosen, the image input or PC input information (whichever is currently selected) is displayed on the right of the menu.
- When “Language” is selected, you can set the language. → Proceed to Procedure 6.

### 3. Press [ENTER] or cursor (▶) to confirm the menu item.

- The menu indicated differs according to whether Video input or PC input is selected, or when there is no image signal inputted.
- For details, please see ‘The Menu Configuration’ on the next page.

|               |                |                                                                                                 |
|---------------|----------------|-------------------------------------------------------------------------------------------------|
| PICTURE ADJ   | POSITION       | ENTER                                                                                           |
| IMAGE OPTIONS | DEINTERLACED   | <input checked="" type="radio"/> AUTO <input type="radio"/> OFF                                 |
|               | HDTV           | <input checked="" type="radio"/> 1080i <input type="radio"/> 1035i <input type="radio"/> 1080sF |
|               | ASPECT RATIO   | ENTER                                                                                           |
| PROJECTOR OPT | VIDEO STANDARD | ENTER                                                                                           |
| LANGUAGE      | PHASE          | 12                                                                                              |
| SIGNAL INFO   |                |                                                                                                 |

E.g. “IMAGE OPTIONS” menu when video input is selected

|               |            |                                                                                           |
|---------------|------------|-------------------------------------------------------------------------------------------|
| PICTURE ADJ   | POSITION   | ENTER                                                                                     |
| IMAGE OPTIONS | TRACKING   | 123                                                                                       |
|               | PHASE      | 12                                                                                        |
|               | RESIZE     | ENTER                                                                                     |
| PROJECTOR OPT | CLAMP      | <input type="radio"/> ST <input checked="" type="radio"/> BP                              |
| LANGUAGE      | SYNC LEVEL | <input type="radio"/> LOW <input checked="" type="radio"/> STD <input type="radio"/> HIGH |
| SIGNAL INFO   |            |                                                                                           |

E.g. “IMAGE OPTIONS” menu when PC input is selected

### 4. Press the cursor buttons (▲/▼) to select an adjustment item.

- Adjustment item names displayed in pale cannot be selected.

### 5. Press the cursor buttons (◀/▶) to change the setting value.

- Adjustment item names displayed in pale cannot be selected.

#### Alternatively, press [ENTER].

- When the item in the image adjustment menu against which [ENTER] is indicated is selected, either it will shift to the Image Options screen or the item command will be executed.

### 6. To exit after the adjustment, press the [EXIT] button

- Each time you press the button, the menu returns to the previous one.

### 7. Repeat procedures 2 to 6 to set other items.

After all adjustments are done, press the [MENU] button.  
The menu will disappear from the screen.

## » The Menu Configuration

### The Menu Configuration

Item values shown in { } are initial values set at manufacture.

- Press [ENTER], [EXIT] or the right cursor button (▶) to operate a menu while it is displayed.
- The menu items corresponding to an item currently selected is displayed on the right-hand side of the main menu.
- Menu items shown differ according to whether Video input or PC input is selected or when there is no image signal inputted.
- When "SIGNAL INFO" is selected, information relating to the present selected image input appears on the right side of the menu.  
There is no submenu for this "SIGNAL INFO" menu. (For details, please see 'The Menu Structure'.)

## 1 "PICTURE ADJ" menu

Image adjustment.

You can adjust the following items on the "PICTURE ADJ" menu.

- There is no display when no image signal is inputted.

### When Video input is selected

### When PC input is selected

| Adjustment item (press ▲ / ▼) | Adjustment content (press ◀ / ▶)                                                                                                            |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| "Contrast"                    | Adjusts the contrast of the picture image.<br>Range of values: -30 ~ 30 {0}                                                                 |
| "Brightness"                  | Adjusts the brightness of the picture image. Range of values: -30 ~ 30 {0}                                                                  |
| "Color"                       | Adjusts the color density of the picture image. Range of values: -30 ~ 30 {0}                                                               |
| "Tint"                        | Adjusts the tint of the picture image. Range of values: -30 ~ 30 {0}                                                                        |
| "Sharpness"                   | Adjusts the outline of the picture image. Range of values: -3 ~ 3 {0}                                                                       |
| "White Bal"                   | Adjust the Color temperature of the screen.<br>→ Press the [ENTER] button to enter the Color temperature setting menu 2 .                   |
| "Reset"                       | Resets all items in the "Image adj." submenu to the pre-set values (i.e. values set upon purchase).<br>→ Press the [ENTER] button to reset. |

\* In the "Image Options" menu 3, if the "Resize" function in the PC submenu is set to "1:1", the image quality will not change even if the value is changed. (No adjustment)

## 2 "WHITE BAL" menu

To adjust the "White Bal" of the projected image, press the (▲ / ▼) cursor buttons and choose the setting. Next press the (◀ / ▶) cursor buttons to set the "White Bal". If "6500K" is set, the image will turn out reddish.

|           |                            |             |
|-----------|----------------------------|-------------|
| Set value | : "6500K", "8500K", "Cust" | { "6500K" } |
| "RED"     | : -255 ~ 0                 | {0}         |
| "GREEN"   | : -255 ~ 0                 | {0}         |
| "BLUE"    | : -255 ~ 0                 | {0}         |

## 3 "IMAGE OPTIONS" menu

Use this menu to set the basic Tracking and Positioning settings of a picture image. Items that can be adjusted via the "Image Options" menu are shown below.

- Displaying items differ depending on whether Video input or PC input is selected.

### When Video input is selected

| Adjustment item (press ▲ / ▼) | Adjustment content (press ◀ / ▶)                                                                                                                                                                                                                                                                      |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| "Position"                    | Adjusts the position of the image and menu display.<br>→ Press the [ENTER] button to enter the "Position" menu 4 .                                                                                                                                                                                    |
| "Deinterlace"                 | This is set when viewing movies.<br>Set value : "Auto", "OFF" { "Auto" }<br>"Auto" : Normally, the projector is set to "Auto".<br>"OFF" : This is set when not viewing movies.                                                                                                                        |
| "HDTV"                        | In order to display "HDTV" signals in the exact aspect ratio of 16:9, the correct numerical value has to be set.<br>Set value : 1080i, 1035i, 1080sF {1080i}<br>"1080i" : Normally, set to "1080i".<br>"1035i" : Set when high vision signals are used.<br>"1080sF" : Used for segment frame signals. |
| "Aspect ratio"                | Select the vertical-to-horizontal ratio of the image projected.<br>→ Press the [ENTER] button to enter the "Aspect ratio" menu 5.                                                                                                                                                                     |
| "Video Standard"              | Sets the "Video Standard".<br>→ Press the [ENTER] button to enter the "Video Standard" menu 6.                                                                                                                                                                                                        |
| "Phase"                       | Adjusts flickering or dim images. (setting is normally not required.)<br>Range of values: 0 ~ 31 {Varies with signals}                                                                                                                                                                                |

### When PC input is selected

| Adjustment item (press ▲ / ▼) | Adjustment content (press ◀ / ▶)                                                                                                                                                                                                           |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| "Position"                    | Adjusts the position of the image and menu display.<br>→ Press the [ENTER] button to enter the "Position" menu 4 .                                                                                                                         |
| "Tracking"                    | Adjusts lateral size and display area of image. (Setting is normally not required.) {Varies with signals}                                                                                                                                  |
| "Phase"                       | Adjusts flickering or dim image. (adjustment is normally not required.)<br>Range of values: 0 ~ 40 {Varies with signals}                                                                                                                   |
| "Resize"                      | To set the way to display in the panel input signals that have fewer pixels (lower resolution) than light amplified elements.<br>→ Press the [ENTER] button to enter the "Resize" menu 7 .                                                 |
| "Clamp"                       | This can be used if the screen of the PC/workstation is unstable in that it dims and brightens.<br>Set the position of the clamp pulse to Back porch ("BP") or Sync tip ("ST").<br>Normally, "BP" is used.<br>Values : "ST", "BP" { "BP" } |

## When there is no image signal inputted

| Adjustment item (press ▲ / ▼)               | Adjustment content (press ◀ / ▶)                                                                                                                                                                                                                                           |
|---------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| "Position"                                  | Adjusts the position of the image and menu display.<br>→ Press the [ENTER] button to enter the "Position" menu 4 .                                                                                                                                                         |
| "Sync level"<br>(When PC input is selected) | Although the inputted image signal is adjusted so that synchronization occurs automatically, this changes by changing this setup.<br>Setting can be made by selecting "Low" (weaker), "Std" (factory set) or "High" (stronger).<br>Values : "Low", "Std", "High" { "Std" } |

## 4 "Position" menu

You can adjust the menu display position. Press the (▲ / ▼) cursors to set the horizontal/vertical position of the menu display.

|                  |      |
|------------------|------|
| Set Value :      |      |
| "OSD Position" : | {  } |

"H-Shift" : Varies with signals.  
 "V-Shift" : Varies with signals.  
 "Image Scale Pos" : -8 ~ +7{0}

## 5 "Aspect ratio" menu

Press the cursor (◀ / ▶) to set the aspect ratio of image.

Setting value: "Standard", "Anamorphic", "Letterbox" \*{varies with signals}  
 \* When creating an anamorphic (16:9) image with black bars above and below the screen from the signal with a standard aspect ratio of 4:3, the image will be enlarged to full screen on the panel if "Aspect ratio" is set to "Letterbox".

## 6 "Video Standard" menu

Press the (▲ / ▼) cursor buttons to choose the "Video Standard" of the image signals. Normally, "AUTO" is selected. When "AUTO" does not function or when there is error, select the appropriate color system according to the software player.

Values : "AUTO", "NTSC", "NTSC4.43", "PAL", "SECAM"  
 { "AUTO" }

## 7 "Resize" menu

Press the cursor (◀ / ▶) to resize.

Setting value : "1:1", "4:3", "Fill Screen", "Letterbox"  
 {varies with signals}  
 "1:1" : The image is displayed at the inputted resolution.  
 "4:3" : The picture image projected is virtually enlarged to the full screen size if the inputted resolution is smaller than (1400 pixels x 788 pixels).  
 "Fill Screen" : While maintaining the original aspect ratio, the video image projected is virtually enlarged until either the horizontal or vertical side reaches the full size (1400 pixels x 788 pixels).  
 "Letterbox" : The picture image projected is virtually enlarged to the full screen size if the 16:9 image is created with black bars above and below the screen from the signal with original aspect ratio of 4:3.

## 8 "Projector Opt" menu ("Page 1")

The items of the "Projector Opt" menu shown below can be adjusted.

- The "Projector Opt" menu consists of two pages ("Page 1" and "Page 2").

## "Page 1"

| Adjustment item (press ▲ / ▼) | Adjustment content (press ◀ / ▶)                                                                                               |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| "Signal Option"               | Sets the color table.<br>→ Press the [ENTER] button to enter the "Color profile" menu w .                                      |
| "OSD Timer"                   | Sets whether the menu display automatically clears after 15 seconds.<br>Values : "15sec", "ON" { "15sec" }                     |
| "Line display"                | Sets whether the line display is shown for about 5 seconds.<br>Values : "5sec", "OFF" { "5sec" }                               |
| "H. Orientation"              | Reverses image left to right.<br>Values : "ON", "OFF" { "OFF" }                                                                |
| "V Orientation"               | Inverses image upside down.<br>Values : "ON", "OFF" { "OFF" }                                                                  |
| "Page 2"                      | Displays "Page 2" of the "Projector Opt" menu<br>→ Press the [ENTER] button to enter the "Projector Opt" menu ("Page 2") [13]. |

## 9 "Signal Option" menu

To choose the color table of the image signals, press the (▲ / ▼) CURSOR buttons. When using "Signal Option", set the "White Bal" to "6500K".

- No display in the absence of image signal input.  
 Values : "-----", "HDTV", "Computer", "NTSC", "PAL"  
 { "-----" }

## 10 "Projector Opt" menu ("Page 2")

| Adjustment item (press ▲ / ▼) | Adjustment content (press ◀ / ▶)                                                                                                                                                                                                                                                                                                                                               |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| "Sleep Timer [min]"           | Sets the length of sleep time which, when lapsed, automatically puts the projector into stand-by state if no signal is inputted.<br>Setting value: "15", "30", "60", "OFF"<br>{ "OFF" }                                                                                                                                                                                        |
| "OSD color"                   | When "ON", menu becomes transparent and the background can be seen through it.<br>Setting value: "OFF", "ON" { "OFF" }                                                                                                                                                                                                                                                         |
| "Analog BNC IN"               | Sets whether to use the BNC connector on the back of the projector as an "RGB" signal input terminal or as a "YPbPr" (color-difference) signal input terminal. Please reset it based on the connected apparatus.<br><ul style="list-style-type: none"> <li>The input will be "RGB" irrespective of the PC signal setting.</li> </ul> Setting value: "RGB", "YPbPr" { "YPbPr" } |
| "Video Enhance"               | Image of high resolution can be achieved. Set as required.<br>This is turned "ON" when the [OPERATE] button is pressed.<br>Setting value: "OFF", "ON" { "ON" }                                                                                                                                                                                                                 |

|                 |                                                                                                                                                                                                                  |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| "RS-232C [bps]" | Sets the communication speed (signal transmission speed) when communicating with a computer by using the [RS-232C] terminal. Please set the baud rate or transmission.<br>Setting value: "9600", "19200" {19200} |
| "SXGA"          | Select "1400" to project SXGA+ signal.<br>Setting value: "1280", "1400" {1280}                                                                                                                                   |
| "DVI"           | Set whether to use PC input or HDCP compatible video signal when using [DVI] terminal as input. Set according to the connecting equipment.<br>Setting value : "PC", "HDCP" {"HDCP"}                              |

## 11 "Language" menu

Select the language in this language menu with the CURSOR buttons (▲/▼).

Setting value : (English), (German), (Spanish), (Italian), (French)  
{[English]}

- Some words in the menu and proper nouns such as "VIDEO", "NTSC", "AUTO ADJ..." are shown only in English.

## 12 "Signal Info" menu

Displays the information such as image input currently selected, other information and lamp usage time.

### When video input is selected

|              |                                                                                                                                                                                              |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| "Input"      | Displays the image input [VIDEO], [Y/C], [RGB2] when projecting.                                                                                                                             |
| "Switcher"   | Displays the selected switcher matching the specification of this projector.<br>"0" : not being used.<br>"1-10" : switcher number.<br>For details, please check with your authorized dealer. |
| "Source"     | Displays the type of video signal of the image projected.                                                                                                                                    |
| "Lamp Hours" | Displays the number of accumulated used hours of the light-source lamp.                                                                                                                      |

### When PC input is selected

|                |                                                                                                                                                                                                     |
|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| "Input"        | Displays the computer input ([RGB1], [RGB2], [RGB3]) when projecting.                                                                                                                               |
| "Switcher"     | Displays the selected switcher number matching the specification of this projector.<br>"0" : not being used.<br>"1-10" : switcher number.<br>For details, please check with your authorized dealer. |
| "Resolution"   | Displays the resolution of the inputted signal. (Horizontal x vertical) <ul style="list-style-type: none"> <li>Some inputted signals cannot be displayed correctly.</li> </ul>                      |
| "H. Frequency" | Displays the horizontal frequency of the inputted signal.                                                                                                                                           |
| "V. Frequency" | Displays the vertical frequency of the inputted signal.                                                                                                                                             |
| "Lamp Hours"   | Displays the number of accumulated used                                                                                                                                                             |

|                |                                                                                 |
|----------------|---------------------------------------------------------------------------------|
| "V. Frequency" | Displays the vertical frequency of the inputted signal.                         |
| "Lamp Hours"   | Displays the number of accumulated used hours of the current light-source lamp. |

### When no image signal is inputted

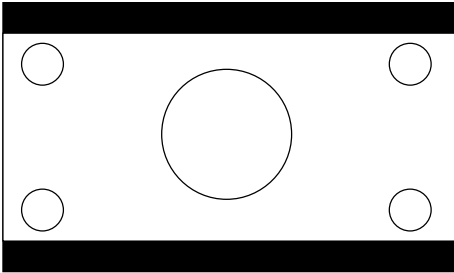
|              |                                                                                                                                                                                                    |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| "Input"      | Displays the current selected image input ([VIDEO], [Y/C], [RGB1], [RGB2], [RGB3]) when projecting.                                                                                                |
| "Switcher"   | Displays the selected switcher number matching the specification of this projector.<br>"0" : not being used<br>"1-10" : switcher number.<br>For details, please check with your authorized dealer. |
| "Lamp Hours" | Displays the number of accumulated used hours of the light-source lamp.                                                                                                                            |

# SETTING “ASPECT RATIO” AND “RESIZE”

## » Setting the “Aspect Ratio”

Set the “Aspect Ratio” when image is input from the [VIDEO], [Y/C] or [RGB2] terminals.

### 1. Project the image onto the screen



← Standard (4:3) image recorded in letterbox (black bars above and below the screen) such as in DVD software.

### 2. Press the [MENU] button

- The main menu appears on the screen.

|               |               |       |
|---------------|---------------|-------|
| PICTURE ADJ   | CONTRAST 12   |       |
| IMAGE OPTIONS | BRIGHTNESS 12 |       |
|               | COLOR 12      |       |
|               | TINT 12       |       |
|               | SHARPNESS 1   |       |
| PROJECTOR OPT | WHITE BAL     | ENTER |
| LANGUAGE      | RESET         | ENTER |
| SIGNAL INFO   |               |       |

### 3. Press the cursor buttons (▲/▼) to select “Image Options” and press [ENTER] or cursor (▶).

- The “Image Options” menu appears on the right side of the screen.

|               |                |                                                                                                 |
|---------------|----------------|-------------------------------------------------------------------------------------------------|
| PICTURE ADJ   | POSITION       | ENTER                                                                                           |
| IMAGE OPTIONS | DEINTERLACED   | <input checked="" type="radio"/> AUTO <input type="radio"/> OFF                                 |
|               | HDTV           | <input checked="" type="radio"/> 1080i <input type="radio"/> 1035i <input type="radio"/> 1080sF |
|               | ASPECT RATIO   | ENTER                                                                                           |
|               | VIDEO STANDARD | ENTER                                                                                           |
| PROJECTOR OPT | PHASE          | 12                                                                                              |
| LANGUAGE      |                |                                                                                                 |
| SIGNAL INFO   |                |                                                                                                 |

### 4. Select “Aspect ratio” with the cursor buttons (▲/▼) and press [ENTER].

- The “Aspect ratio” menu appears on the screen.

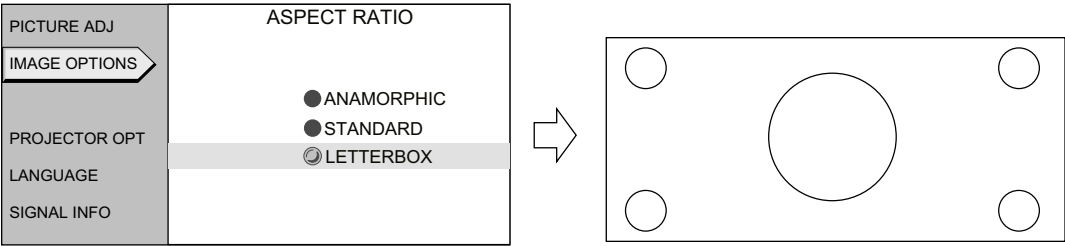
|               |                |                                                                                                 |
|---------------|----------------|-------------------------------------------------------------------------------------------------|
| PICTURE ADJ   | POSITION       | ENTER                                                                                           |
| IMAGE OPTIONS | DEINTERLACED   | <input checked="" type="radio"/> AUTO <input type="radio"/> OFF                                 |
|               | HDTV           | <input checked="" type="radio"/> 1080i <input type="radio"/> 1035i <input type="radio"/> 1080sF |
|               | ASPECT RATIO   | ENTER                                                                                           |
|               | VIDEO STANDARD | ENTER                                                                                           |
| PROJECTOR OPT | PHASE          | 12                                                                                              |
| LANGUAGE      |                |                                                                                                 |
| SIGNAL INFO   |                |                                                                                                 |



|               |                                             |
|---------------|---------------------------------------------|
| PICTURE ADJ   | ASPECT RATIO                                |
| IMAGE OPTIONS | <input checked="" type="radio"/> ANAMORPHIC |
|               | <input type="radio"/> STANDARD              |
|               | <input type="radio"/> LETTERBOX             |
|               |                                             |
| PROJECTOR OPT |                                             |
| LANGUAGE      |                                             |
| SIGNAL INFO   |                                             |

5. Select “Letterbox” with the cursor buttons (◀/▶).

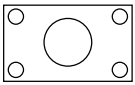
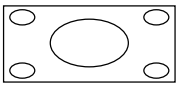
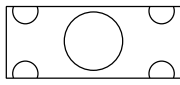
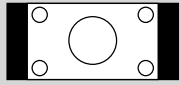
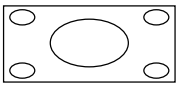
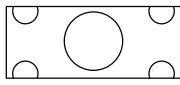
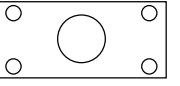
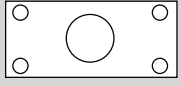
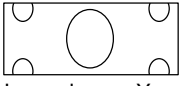
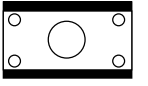
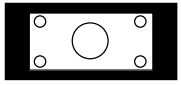
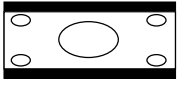
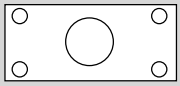
- The “Aspect Ratio” to “Letterbox” for optimum projected image.



6. Press the [MENU] button to end when adjustment is completed.

- The menu disappears from the screen.

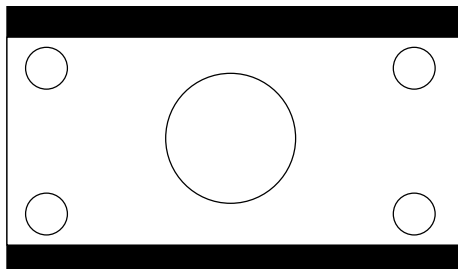
■ The relation between the input image and the projected image according to the setting of “Aspect ratio” menu.

| Input image                                                                                                                                                                                       | The setting of “Aspect ratio” menu when input terminal is [VIDEO], [Y/C] or [RGB2]                                                                                        |                                                                                                                                                                              |                                                                                                                                                                                                                            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                   | “Standard”                                                                                                                                                                | “Anamorphic”                                                                                                                                                                 | “Letterbox”                                                                                                                                                                                                                |
|                                                                                                                                                                                                   | <br>SDTV(4:3)                                                                           |                                                                                            |                                                                                                                                         |
|                                                                                                                                                                                                   | <br>Image loss : No<br>Aspect ratio : Same<br><b>Optimum image</b>                      | <br>Image loss : No<br>Aspect ratio : Landscape<br><b>Image is stretched horizontally</b>  | <br>Image loss : Yes<br>Aspect ratio : Same<br><b>Image is chopped off at the upper and lower portion</b>                               |
| <br>HDTV(16:9)                                                                                                 | <br>Image loss : No<br>Aspect ratio : Portrait<br><b>Image is stretched vertically</b> | <br>Image loss : No<br>Aspect ratio : Same<br><b>Optimum image</b>                        | <br>Image loss : Yes<br>Aspect ratio : Portrait<br><b>Image is stretched vertically and chopped off at the upper and lower portion</b> |
| <br>SDTV(4:3)<br>Images recorded in letterbox (black bars above and below the screen) such as in DVD software. | <br>Image loss : No<br>Aspect ratio : Same<br><b>Image cannot be largely projected</b> | <br>Image loss : No<br>Aspect ratio : Landscape<br><b>Image is stretched horizontally</b> | <br>Image loss : No<br>Aspect ratio : Same<br><b>Optimum image</b>                                                                     |

## » Setting the “Resize”

Set the “Resize” when HDCP image is input from [RGB3] terminal.

### 1. Project the image onto the screen



← 4:3 image recorded in letterbox (black bars above and below the screen) such as in DVD software.

### 2. Press the [MENU] button

- The main menu appears on the screen.

|               |            |    |       |
|---------------|------------|----|-------|
| PICTURE ADJ   | CONTRAST   | 12 |       |
| IMAGE OPTIONS | BRIGHTNESS | 12 |       |
|               | COLOR      | 12 |       |
|               | TINT       | 12 |       |
|               | SHARPNESS  | 1  |       |
| PROJECTOR OPT | COLOR TEMP |    | ENTER |
| LANGUAGE      | RESET      |    | ENTER |
| SIGNAL INFO   |            |    |       |

### 3. Press the cursor buttons (▲/▼) to select “Image Options” and press [ENTER] or cursor (▶).

- The “Image Options” menu appears on the right side of the screen.

|               |            |                    |
|---------------|------------|--------------------|
| PICTURE ADJ   | POSITION   | ENTER              |
| IMAGE OPTIONS | TRACKING   | 123                |
|               | PHASE      | 12                 |
|               | RESIZE     | ENTER              |
|               | CLAMP      | ● ST ● BP          |
| PROJECTOR OPT | SYNC LEVEL | ● LOW ● STD ● HIGH |
| LANGUAGE      |            |                    |
| SIGNAL INFO   |            |                    |

### 4. Select “Resize” with the cursor buttons (▲/▼) and press [ENTER].

- The “Resize” menu appears on the screen.

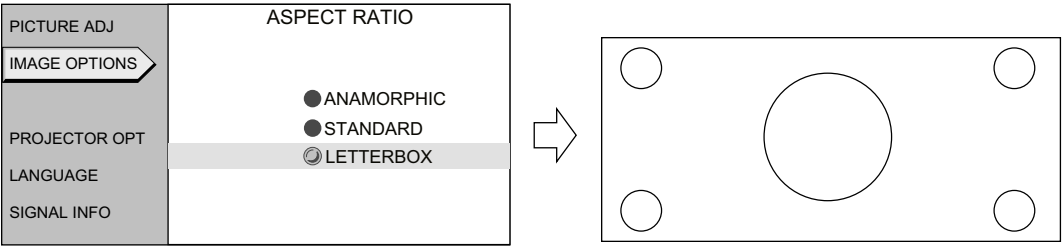
|               |            |                    |
|---------------|------------|--------------------|
| PICTURE ADJ   | POSITION   | ENTER              |
| IMAGE OPTIONS | TRACKING   | 123                |
|               | PHASE      | 12                 |
|               | RESIZE     | ENTER              |
|               | CLAMP      | ● ST ● BP          |
| PROJECTOR OPT | SYNC LEVEL | ● LOW ● STD ● HIGH |
| LANGUAGE      |            |                    |
| SIGNAL INFO   |            |                    |

→

|               |               |
|---------------|---------------|
| PICTURE ADJ   | RESIZE        |
| IMAGE OPTIONS |               |
|               | ● 1 : 1       |
|               | ● 4 : 3       |
|               | ● FILL SCREEN |
| PROJECTOR OPT | ● LETTERBOX   |
| LANGUAGE      |               |
| SIGNAL INFO   |               |

5. Select “Letterbox” with the cursor buttons (◀/▶).

- The “Aspect Ratio” to “Letterbox” for optimum projected image.



6. Press the [MENU] button to end when adjustment is completed.

- The menu disappears from the screen.

■ The relation between the input image and the projected image according to the setting of “Aspect ratio” menu.

| Input image                                                                                                    | The setting of “Resize” menu when input terminal is [RGB3] and with HDCP signal input.                                               |                                                                                           |                                                                                        |                                                                                                                                        |
|----------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                | “1:1”                                                                                                                                | “Fill Screen”                                                                             | “4:3”                                                                                  | “Letterbox”                                                                                                                            |
| <br>SDTV(4:3)                                                                                                  | <br>Image loss : No<br>Aspect ratio : Same<br><b>Image cannot be largely projected</b>                                               | <br>Image loss : No<br>Aspect ratio : Landscape<br><b>Image is stretched horizontally</b> | <br>Image loss : No<br>Aspect ratio : Same<br><b>Optimum image</b>                     | <br>Image loss : No<br>Aspect ratio : Same<br><b>Image is chopped off at the upper and lower portion</b>                               |
| <br>HDTV(16:9)                                                                                                 | <br>Image loss : Yes<br>Aspect ratio : Same<br><b>There may be cases where only the upper left portion of the image is projected</b> | <br>Image loss : No<br>Aspect ratio : Same<br><b>Aspect ratio may change</b>              | <br>Image loss : No<br>Aspect ratio : Same<br><b>Optimum image</b>                     | <br>Image loss : Yes<br>Aspect ratio : Portrait<br><b>Image is stretched vertically and chopped off at the upper and lower portion</b> |
| <br>SDTV(4:3)<br>Images recorded in letterbox (black bars above and below the screen) such as in DVD software. | <br>Image loss : No<br>Aspect ratio : Same<br><b>Image cannot be largely projected</b>                                               | <br>Image loss : No<br>Aspect ratio : Landscape<br><b>Image is stretched horizontally</b> | <br>Image loss : No<br>Aspect ratio : Same<br><b>Image cannot be largely projected</b> | <br>Image loss : No<br>Aspect ratio : Same<br><b>Optimum image</b>                                                                     |

## REPLACING THE LAMP (FOR SERVICE ONLY)

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### ■ The light-source lamp and its lamp time

The light-source lamp has a service life. The life of lamps currently used for this projector is about 2000 hours.

[Average lamp life: 2000 hours]

When the light-source lamp approaches the end of its service life, deterioration progresses rapidly. Please contact your Vidikron dealer to install a new lamp when the accumulated lamp time exceeds 1900 hours. Depending on the operating conditions, the lamp may have to be changed earlier. If the image remains dark or the tone, unusual, even after adjustment, please replace the lamp as soon as possible. You can check the accumulated used hours of the lamp via the “Lamp time” item in the “Signal Info” menu.

- **When lamp time exceeds 1000 hours:**

When the accumulated lamp time reaches 1000, a message indicating “1000h” will appear on the projected screen.

- Press [EXIT] button to delete the message.

- **When lamp time exceeds 1900 hours:**

- **When the accumulated lamp time reaches 1900 hours:**

- The [LAMP] indicator on the projector lights up.

- **When the accumulated lamp time exceeds 1900 hours:**

- “Lamp replacement” appears on the screen.

- \* Press [EXIT] button to delete the message.

- **When the lamp time exceeds 2000 hours:**

The lamp indicator on the projector blinks.

“Warning” and “Lamp replacement” appear on the screen; the word “Warning” blinks.

- To cancel the message, press the [EXIT] button.

However, the same message will appear again every one hour.

- Once the lamp time exceeds 2000 hours, and the projector is either put into the standby state or turned off, projection will not be possible again until the lamp is replaced and the lamp time is reset.

- **When the lamp time exceeds 2010 hours:**

The projector quits and shuts down.

The [LAMP] and [OPERATE] indicators blink on the projector.

- The projector does not turn on unless the lamp (lamp unit) is replaced and the lamp time is reset.

## RESETTING THE LAMP TIME (FOR SERVICE ONLY)

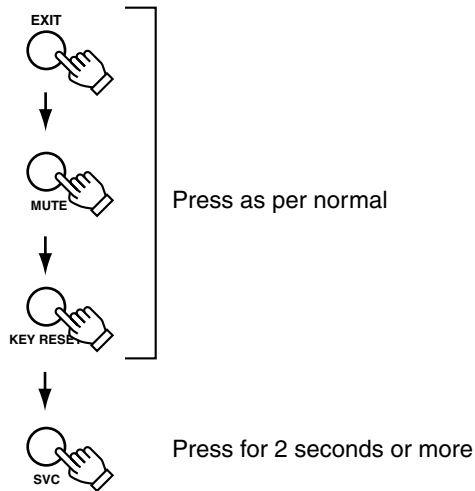
■ After installing a new lamp, reset the lamp time counter inside the projector when this is done. A new count will start. If the display of the accumulated lamp time has reached 2000 hours, the projector will not work (lamp does not light up) unless the lamp time is reset.

### 1. Insert the power cord into the wall outlet

- The [STAND BY] indicator lights up when the main power is inputted.

### 2. Press the [EXIT], [MUTE], [KEY RESET] buttons on the remote control sequentially, then press SVC for 2 seconds or more

- The [STAND BY] and [ON] indicators alternately blink about every approximately 3 seconds. After blinking stops, lamp time resets and the projector returns to the stand-by state ([STAND BY] indicator lights up).



#### To ensure the lamp hours have been reset

The lamp time can be checked via the "Lamp hours" item in the "Signal Info" menu.

#### Caution for reset work

Reset the lamp hours only when you have replaced the lamp.

Never reset it while the lamp is still in use, otherwise the approximate standard for gauging replacement time may be inaccurate, lamp performance may suffer and lamp blow-out may also occur.

## RS-232C EXTERNAL CONTROL

By connecting a computer to the projector with a RS-232C cross cable (D-sub 9 pins), you can control the projector with the computer. The commands to control the projector and the response data format against the received commands are explained here.

For details, please consult the authorized dealer where you purchased your projector.

### 1. Communication Specifications

The communication specifications are as follows.

|              |                      |
|--------------|----------------------|
| Baud Rate    | 9600 bps / 19200 bps |
| Data Length  | 8 bits               |
| Parity       | None                 |
| Stop Bit     | 1 bit                |
| Flow Control | None                 |

### 2. Command Format

#### 2-1 Command Data Format

When sending a control command to the projector, use the following data format.

|        |    |    |         |        |           |    |
|--------|----|----|---------|--------|-----------|----|
| Header | ID | SP | Command | [ SP ] | Parameter | CR |
|--------|----|----|---------|--------|-----------|----|

Header : Designates the head of data and the data type.

: ! (21h): Assigns command to the projector.

: ? (3Fh): Query to the projector. (Asking command)

ID : 1: The identification number of the projector. (Manufacturer set value 1)

SP : Designates the delimiter for ID, Command, and Parameter. (20h)

CR : Designates the terminal of the data. (0Dh)

\* [ ] is not necessary for Asking command.

#### 2-2 Response Data Format

When sending a control command to the projector, use the following data format.

|        |    |    |                           |        |           |    |
|--------|----|----|---------------------------|--------|-----------|----|
| Header | ID | SP | Normal Termination Status | [ SP ] | Parameter | CR |
|--------|----|----|---------------------------|--------|-----------|----|

Header : Designates the head of data.

: @ (40h): Fetches data from the projector.

ID : 1: The identification number of the projector. (Manufacturer set value 1)

SP : Designates the delimiter for ID, Command, and Parameter. (20h)

Normal Termination Status : 0 (30h)

CR : Designates the terminal of the data. (0Dh)

#### 2-3 Parameters Used For The Data Format

The following three kinds of parameters are used for control commands and response data.

1) Numeric value

2) ON/OFF

3) Special parameters

Each parameter is as follows:

1) Numeric value

A 2-byte hexadecimal value (sign included) is represented by a set of 4 digit (4 bytes) characters.

Designated range: 8000 to 7FFF.

2) ON/OFF

Shows the status (ON/OFF) of the projector, such as POWER and MUTE.

| Character | Hex. | Meaning |
|-----------|------|---------|
| 0         | 30   | OFF     |
| 1         | 31   | ON      |

## 3) Special parameters

## Input switching parameters

| Character | Hex. | Meaning |
|-----------|------|---------|
| 0         | 30   | Y/C     |
| 1         | 31   | VIDEO   |
| 3         | 33   | RGB1    |
| 4         | 34   | RGB2    |
| 5         | 35   | RGB3    |

## Operation mode parameters

| Character | Hex.            | Meaning        |
|-----------|-----------------|----------------|
| 0000      | 30h 30h 30h 30h | Stand-by mode  |
| 0001      | 30h 30h 30h 31h | Power-on mode  |
| 0002      | 30h 30h 30h 32h | Cool-down mode |
| 0004      | 30h 30h 30h 34h | Emergency mode |

## 3. External Control Command Table

| Function             | Command | Asking   |      | Data Type     |        |               |
|----------------------|---------|----------|------|---------------|--------|---------------|
|                      |         | Power On | ELSE | Numeric Value | ON/OFF | Special Data  |
| OPERATE              | U0F     | X        | X    | X             | ○      | X             |
| MUTE                 | U00     | ○        | X    | X             | ○      | X             |
| Right Left reversal  | U17     | ○        | X    | X             | ○      | X             |
| Top Bottom inversion | U18     | ○        | X    | X             | ○      | X             |
| Input Switch         | U1A     | ○        | X    | X             | X      | Y/C ...       |
| Operation mode       | Z03     | ○        | ○    | X             | X      | Standy-by ... |

Operation mode: Only Asking command is possible.

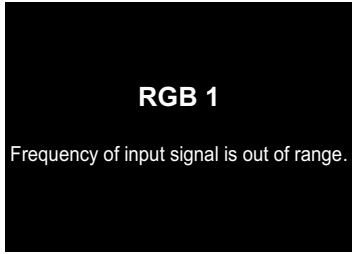
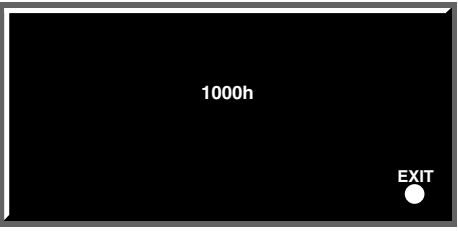
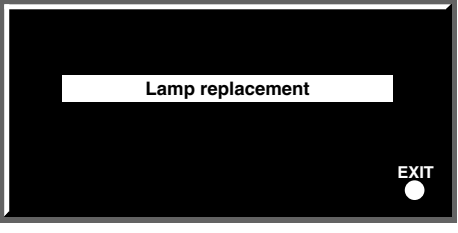
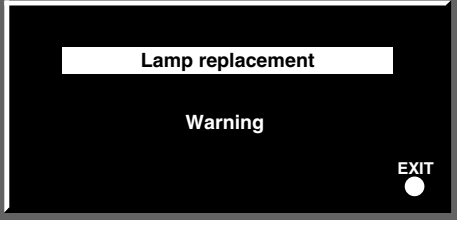
## TROUBLESHOOTING

The following is a basic troubleshooting guide that can assist you in resolving typical problems may result in normal operation. If you have encountered problems that are not listed in this guide, please contact your Vidikron dealer for assistance.

| Symptom                                                                        | Probable Cause                                                                | Solution                                                                                                                                                                                                             |
|--------------------------------------------------------------------------------|-------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Power is not supplied.</b>                                                  | Is the power cord disconnected?                                               | Insert the power cord (plug) firmly.                                                                                                                                                                                 |
|                                                                                | Is the light-source lamp cover closed correctly?                              | After the projector goes into the stand-by state with the [STAND BY] indicator on, unplug from the main power outlet, close the light-source lamp cover correctly and plug in again.                                 |
|                                                                                | Has the lamp life expired? (Has the lamp time reached 2000 hours?)            | After the projector goes into the stand-by state with the [STAND BY] indicator on, un-plug from the main power outlet, replace light-source lamp and plug in again.<br>Reset the lamp time after replacing the lamp. |
| <b>Light is not emitted, or light is dim.</b>                                  | Is the lens cap removed?                                                      | Remove the lens cap.                                                                                                                                                                                                 |
|                                                                                | Is the lamp near exhaustion?                                                  | Check the “Lamp time” on the menu, and if the lamp is near exhaustion, prepare a new lamp and install as soon as possible.                                                                                           |
| <b>With power on, the projector works but stops abruptly in a few minutes.</b> | Is the air inlet or exhaust vent area blocked?                                | After the projector goes into the stand-by state with the [STAND BY] indicator on, un-plug from the main power outlet, remove any blocking object and plug in again.                                                 |
| <b>Video image does not appear, or audio sound does not occur.</b>             | Is the correct input terminal selected?                                       | Select the correct input with the [VIDEO] and [RGB] buttons.                                                                                                                                                         |
|                                                                                | Are devices connected correctly?                                              | Connect devices correctly.                                                                                                                                                                                           |
|                                                                                | Are signals being supplied from the connected devices?                        | Set connected devices correctly.                                                                                                                                                                                     |
|                                                                                | Are input signals (scanning frequency, etc.) appropriate?                     | Check if the signal is appropriate (scanning frequency, etc.) and input the appropriate signal.                                                                                                                      |
| <b>Video image is fuzzy</b>                                                    | Is the focus adjusted correctly?                                              | Adjust focus with the focus ring of the lens.                                                                                                                                                                        |
|                                                                                | Is the projector placed too near or too far from the screen?                  | Set the projector at the correct distance.                                                                                                                                                                           |
| <b>Video image is abnormally dark or bright.</b>                               | Is the “Brightness” adjusted correctly?                                       | Adjust “Brightness” using the menu.                                                                                                                                                                                  |
| <b>Color is poor or unstable.</b>                                              | Is the picture quality (color density, etc.) adjusted correctly?              | Adjust picture quality using the menu.                                                                                                                                                                               |
|                                                                                | Are signals (scanning frequency, etc.) from the connected device appropriate? | Check if the signal is appropriate (scanning frequency, etc.), and input the appropriate signal.                                                                                                                     |
|                                                                                | Is the [RGB2] input terminal being used?                                      | When the [RGB2] input terminal is being used, “RGB2(BNC)” must be selected from the “Projector Opt” menu. Set it correctly according to the input signal.                                                            |

| Symptom                                            | Probable Cause                                                                                                    | Solution                                                                          |
|----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| The upper part of the video image bows or distorts | If the input signal comes from a computer system, is this a sync signal of composite sync (Cs) or G on sync type? | Input separate sync signals for vertical sync (V) and horizontal sync (H) signals |
| Remote control unit does not work.                 | Are batteries installed correctly?                                                                                | Match the polarities of batteries correctly, as shown on the battery cartridge.   |
|                                                    | Are batteries exhausted?                                                                                          | Replace with new batteries.                                                       |
|                                                    | Is there an obstructive object between the remote control unit and the remote sensor?                             | Remove any shielding objects.                                                     |
|                                                    | Is the remote control held too far from the sensor?                                                               | Use the remote control unit at a nearer point.                                    |

## WHAT TO DO WHEN THESE MESSAGES ARE DISPLAYED

| Message                                                                                                                                       | Cause (Contents)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-----------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <p>RGB 1<br/>No Input</p>                                   | <p>No device is connected to the input terminal.<br/>The terminal is connected but no signal is output from the connected device.</p> <ul style="list-style-type: none"> <li>• The selected input mode (input terminal) name is shown above the message.</li> </ul> <p>→ Check the input image signal source.</p>                                                                                                                                                                                                                    |
|  <p>RGB 1<br/>Frequency of input signal is out of range.</p> | <p>The frequency of the input video signal is out of range.</p> <p>→ Please ensure the frequency level of the input video signals is within the projector's specifications.</p>                                                                                                                                                                                                                                                                                                                                                      |
|  <p>1000h<br/>EXIT</p>                                      | <p>When the "Lamp hours" reaches 1000 hours<br/>→ A message indicating "1000h" appears on the projected screen.</p> <ul style="list-style-type: none"> <li>• Press [EXIT] button to delete the message.</li> </ul>                                                                                                                                                                                                                                                                                                                   |
|  <p>Lamp replacement<br/>EXIT</p>                          | <p>When the accumulated lamp time reaches between 1900 hours to 2000 hours,<br/>"Lamp replacement" message appears on the screen each time the projector is turned on.</p> <ul style="list-style-type: none"> <li>• Press [EXIT] button to delete the message.</li> </ul> <p>→ Prepare a replacement lamp and install as quickly as possible.</p>                                                                                                                                                                                    |
|  <p>Lamp replacement<br/>Warning<br/>EXIT</p>              | <p>The word "Warning" appears and blinks when the accumulated lamp time reaches 2000 hours.</p> <p>The message can be cleared by pressing the [EXIT] button. However, the same message will re-appear every hour.</p> <p>Once the projector is turned off, it cannot be turned on again if the accumulated lamp time has exceeded 2000 hours.</p> <p>When the accumulated lamp time reaches 2010 hours, the projector shuts down and cannot be turned on again.</p> <p>→ Replace the light-source lamp and reset the lamp hours.</p> |

## » About Warning Indicators

If something abnormal has occurred in the projector, the warning mode will be set in and the type of abnormality will be indicated by a combination of indicators displayed on the control panel as shown in the following table. The projector will then automatically stops projection and run the cooling fan for about 90 seconds.

| No. | Indicator |                      |            |         | Warning                                                                |
|-----|-----------|----------------------|------------|---------|------------------------------------------------------------------------|
|     | [LAMP]    | [TEMP]               | [STAND BY] | [POWER] |                                                                        |
| 1   | Blink     |                      | Blink      |         | The light-source lamp does not light up and projection cannot be done. |
| 2   | Blink ←   | Blink simultaneously |            | → Blink | The light-source lamp suddenly goes off during projection.             |
| 3   | Blink     | Blink                |            |         | Circuit operation is abnormal.                                         |
| 4   | Blink ←   | Blink alternately    |            | → Blink | The light-source lamp is misfitted.                                    |
| 5   |           | Blink                |            |         | The internal temperature is abnormally high.                           |
| 6   |           | Blink                | Blink      |         | The temperature at the air inlets has risen abnormally high.           |
| 7   | Blink     | Blink                | Blink      | Blink   | The cooling fan has stopped. (Fan locked)                              |

## » Action to be taken upon warning indications

### Please follow the procedures below.

For No. 1-3

No. 1 : Unplug from the main power outlet and restart according to the basic operation procedures.

No. 2 : After checking if a shock (such as from knocking) has not occurred during operation, unplug from the main power outlet and restart according to the basic operation procedures.

No. 3 : Unplug from the main power outlet and restart according to the basic operation procedures.

For No. 4-7

Pull out the power cord when [STAND BY] indicator lights up. After that, check No. 4 ~ No. 7.

No. 4 : Ensure that the lamp is correctly set in place. Restart according to the basic operation procedures.

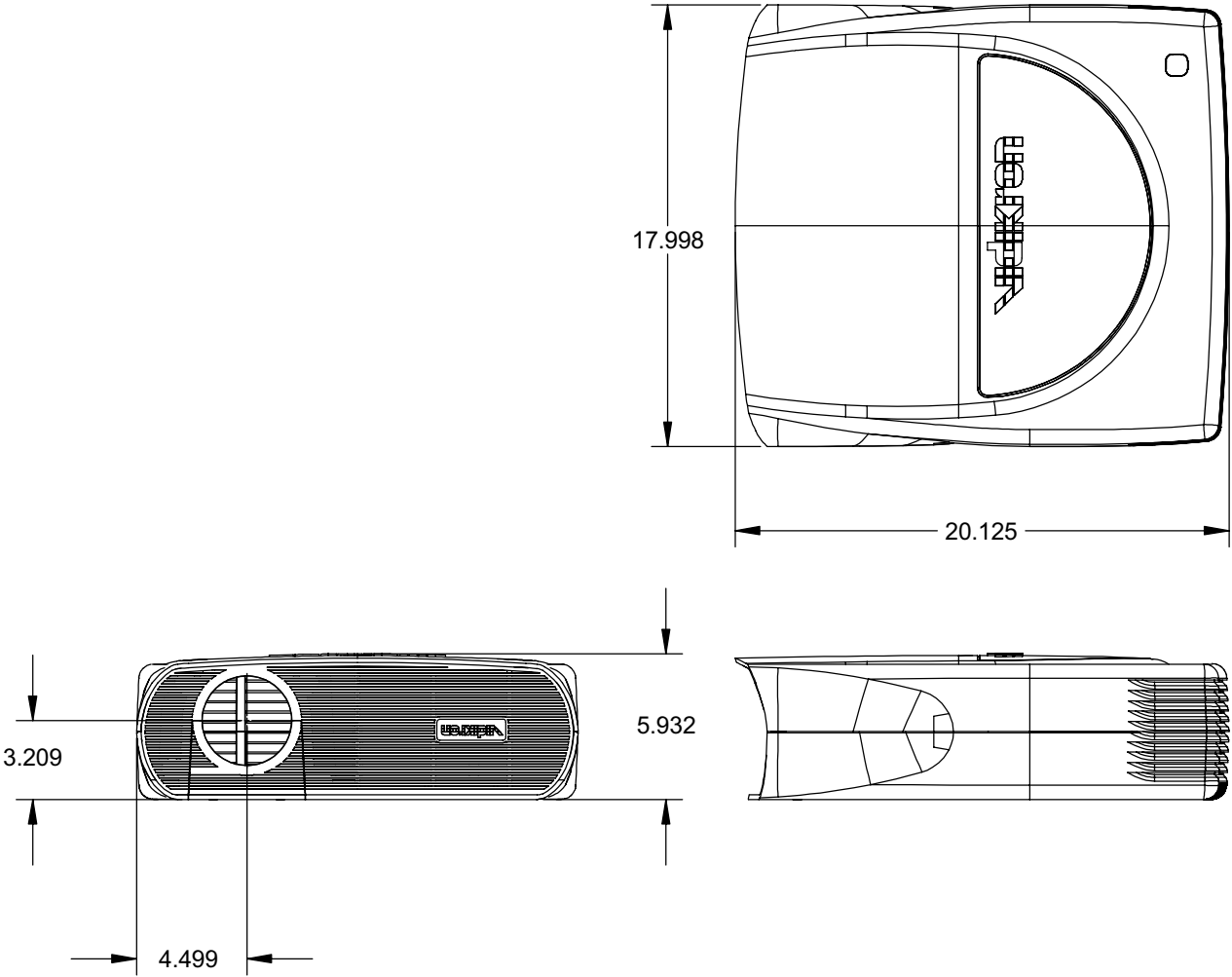
No. 5 : Check that nothing is blocking the air inlets, and wait until the inside cools down. Restart according to the basic operation procedures.

No. 6 : Check the ambient temperature. If it is normal, leave the projector until it cools down. Restart according to the basic operation procedures.

No. 7 : Leave the projector until it cools down. Restart according to the basic operation procedures.

If the warning indication is observed again, wait for the cooling fan to stop. Plug out the power cord with [STAND BY] indicator lights up and call your dealer for repair.

DIMENSIONS



## Vision Model 60 Projector:

|                                    |                                                                                                                                                              |
|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Projector Type:</b>             | D-ILA, 3-Chip. 0.7 in. diagonal                                                                                                                              |
| <b>Native Resolution:</b>          | 1400 x 788 (16:9)                                                                                                                                            |
| <b>Aspect Ratios:</b>              | 4:3, Letterbox, 16:9 Anamorphic                                                                                                                              |
| <b>Video Standards:</b>            | NTSC, PAL                                                                                                                                                    |
| <b>DTV Compatibility:</b>          | 480p, 720p, 1080i                                                                                                                                            |
| <b>Scan Frequency:</b>             | Horizontal: 15 – 120 KHz<br>Vertical: 50 – 120 Hz                                                                                                            |
| <b>Picture Size (16:9 Screen):</b> | Recommended Width: 72 – 96 in.<br>Maximum Width: 240 in. (16:9 screen)                                                                                       |
| <b>Light Output:</b>               | CSMS** Specifications: Home Theater Calibration: 487 ANSI Lumens;<br>17.9 Foot-Lamberts (fL); 1000 ANSI Lumens*                                              |
| <b>Contrast Ratio:</b>             | 800:1 ANSI                                                                                                                                                   |
| <b>Lamp:</b>                       | 250W                                                                                                                                                         |
| <b>Estimated Lamp Life:</b>        | 2000 hours @ 6500° Kelvin                                                                                                                                    |
| <b>Inputs:</b>                     | (1) Composite Video, (1) S-Video, (1) RGB/Component (via BNC), (1) RGB (15-pin mini D-sub), (1) DVI w/HDCP, (1) RS-232, (1) 1/8 in. mini stereo audio        |
| <b>12V Output:</b>                 | Max. 100 Amp, active when the projector is on                                                                                                                |
| <b>Power Requirements:</b>         | 100 – 240V AC, 340W                                                                                                                                          |
| <b>Operating Environment:</b>      | 40° – 95° F, (5° – 35° C)                                                                                                                                    |
| <b>Dimensions (w/out feet):</b>    | Width: 18 in. (457.2 mm)<br>Depth: 20 1/8 in. (511.18 mm)<br>Height: 6 in. (152.4 mm)<br>Weight: 40 lbs. (18.14 kg)                                          |
| <b>Regulatory Approvals:</b>       | FCC, CE, C-Tick                                                                                                                                              |
| <b>Limited Warranty:</b>           | Projector: (2) Two years parts and labor from the date of delivery to the end user.<br>Lamp Warranty: 1000 hours or (6) six months, which ever comes first.. |

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